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FINAL  
ENVIRONMENTAL STATEMENT

Volume 3 of 3



Proposed  
1976 OUTER CONTINENTAL SHELF  
OIL AND GAS GENERAL LEASE SALE  
GULF OF MEXICO

OCS SALE No. 41

Prepared by the  
BUREAU OF LAND MANAGEMENT

*Eurt Lerklund.*

Director

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VISUAL NO. 1  
**SUBMARINE PHYSIOGRAPHY  
OF THE  
GULF OF MEXICO**

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INFORMATION BY  
**U.S. NAVAL OCEANOGRAPHIC OFFICE  
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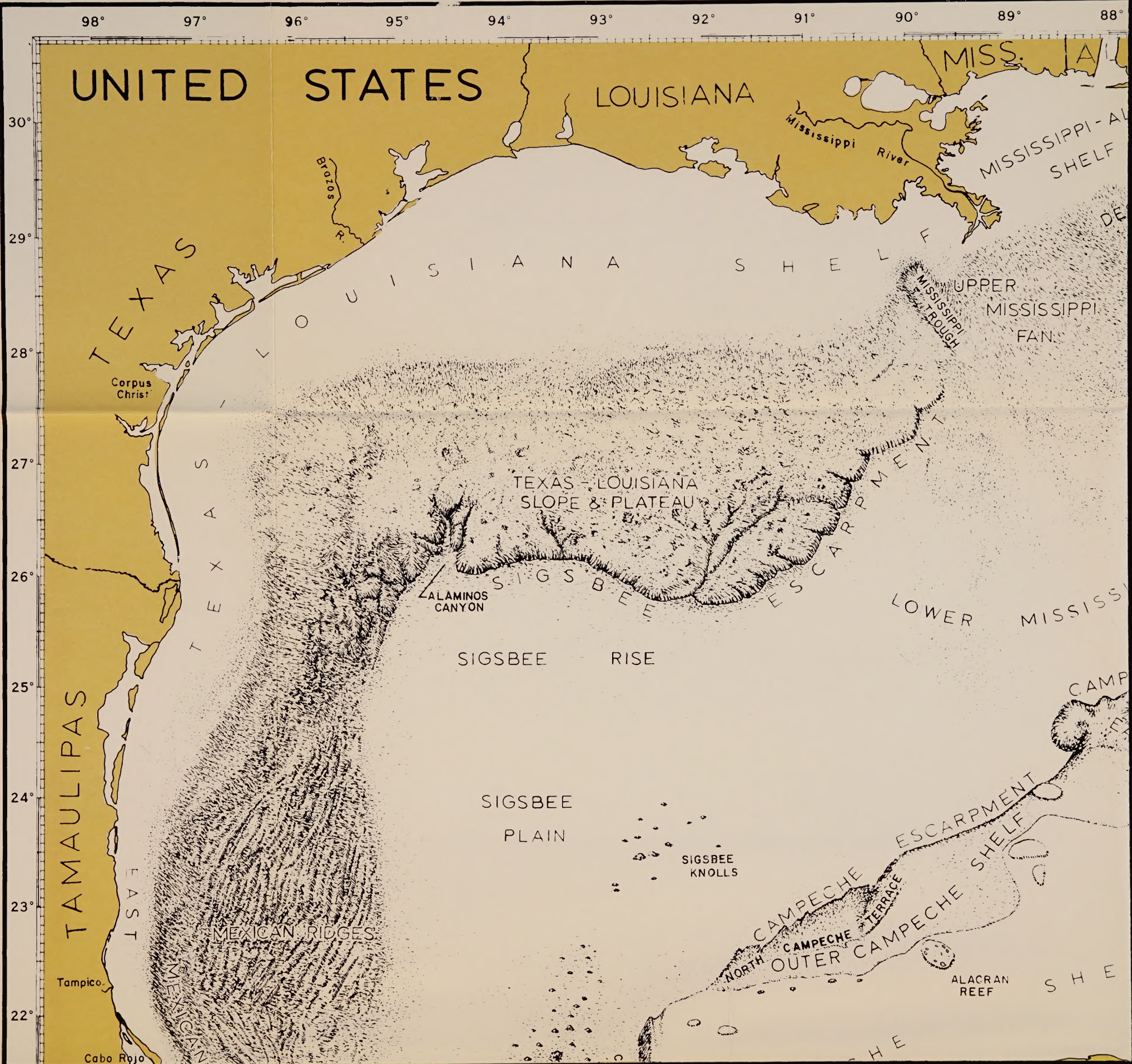
BY: R.N. BERGANTINO; CODE 9310, JULY 1969  
COMPILED FROM BATHYMETRIC PROFILES OBTAINED BY THE USNS KANE  
FROM SURVEYS JAN-APRIL 1969 (15,000 MILES OF TRACK)

OTHER SOURCES OF DATA:  
BATHYMETRIC PROFILES OBTAINED BY THE USS SAN PABLO, 1968 & USNS KEATHLEY, 1968  
Bryant, W.R., Antoine, J., Ewing, M., and Jones, Structure of Mexican Continental Shelf and Slope, Gulf of Mexico, AAPG. V. 52, No. 7, (July 1968) pp. 1204-1228  
Uchupi, E., and Emery, K.O. Structure of Continental Margin off Gulf Coast of United States, AAPG. V. 52, No. 7 (July 1968) pp. 1162-1193  
Worzel, J.L., Leyden, R., and Ewing, M., Newly Discovered Diapirs in Gulf of Mexico, AAPG. V. 52, No. 7 (July 1968) pp. 1194-1203

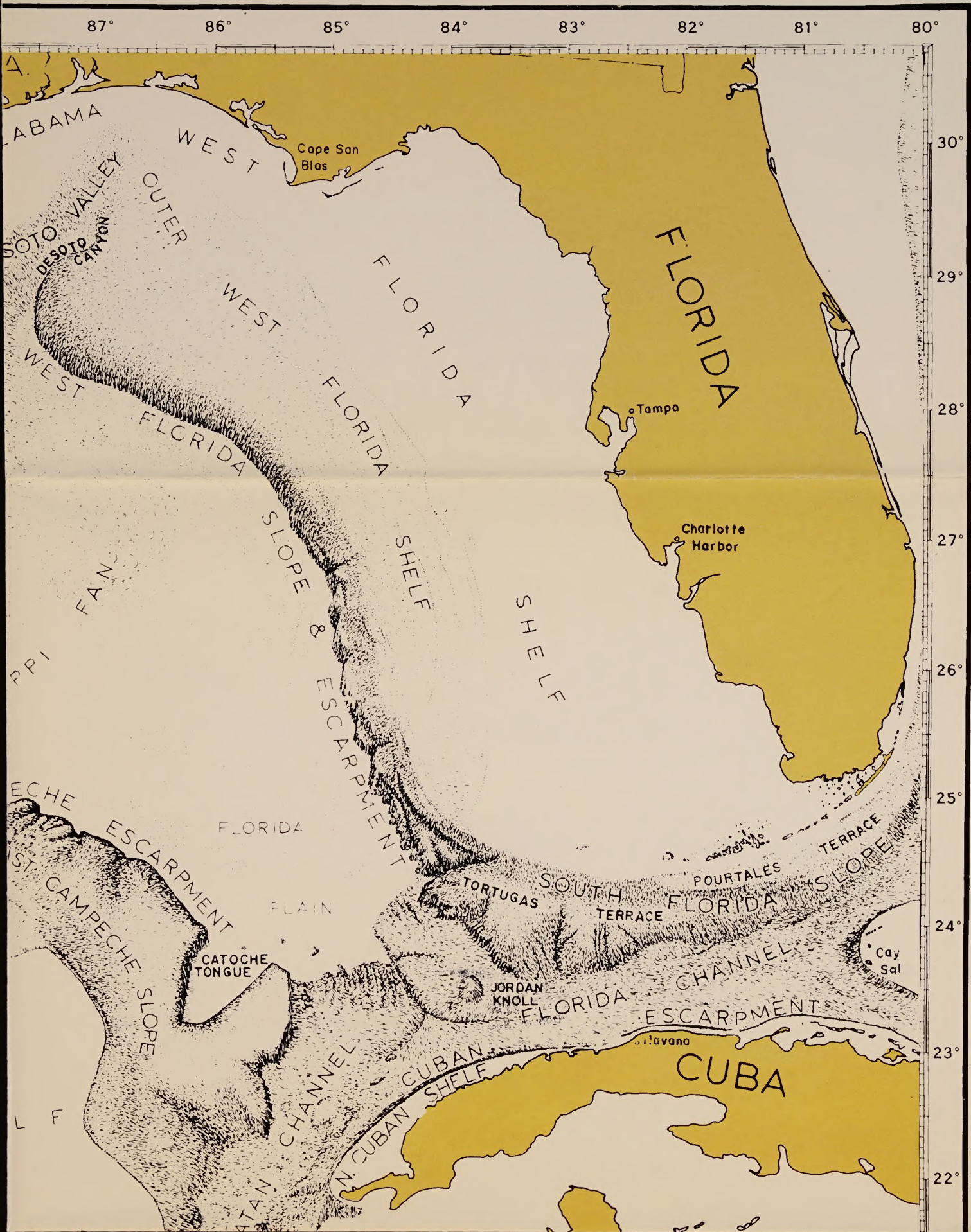
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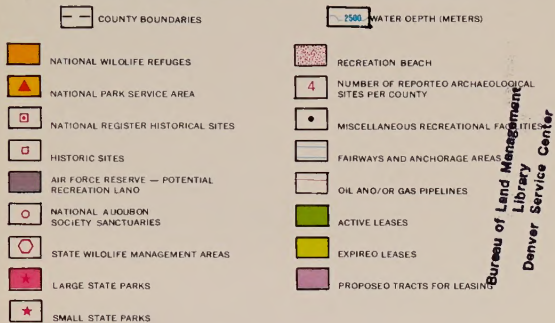
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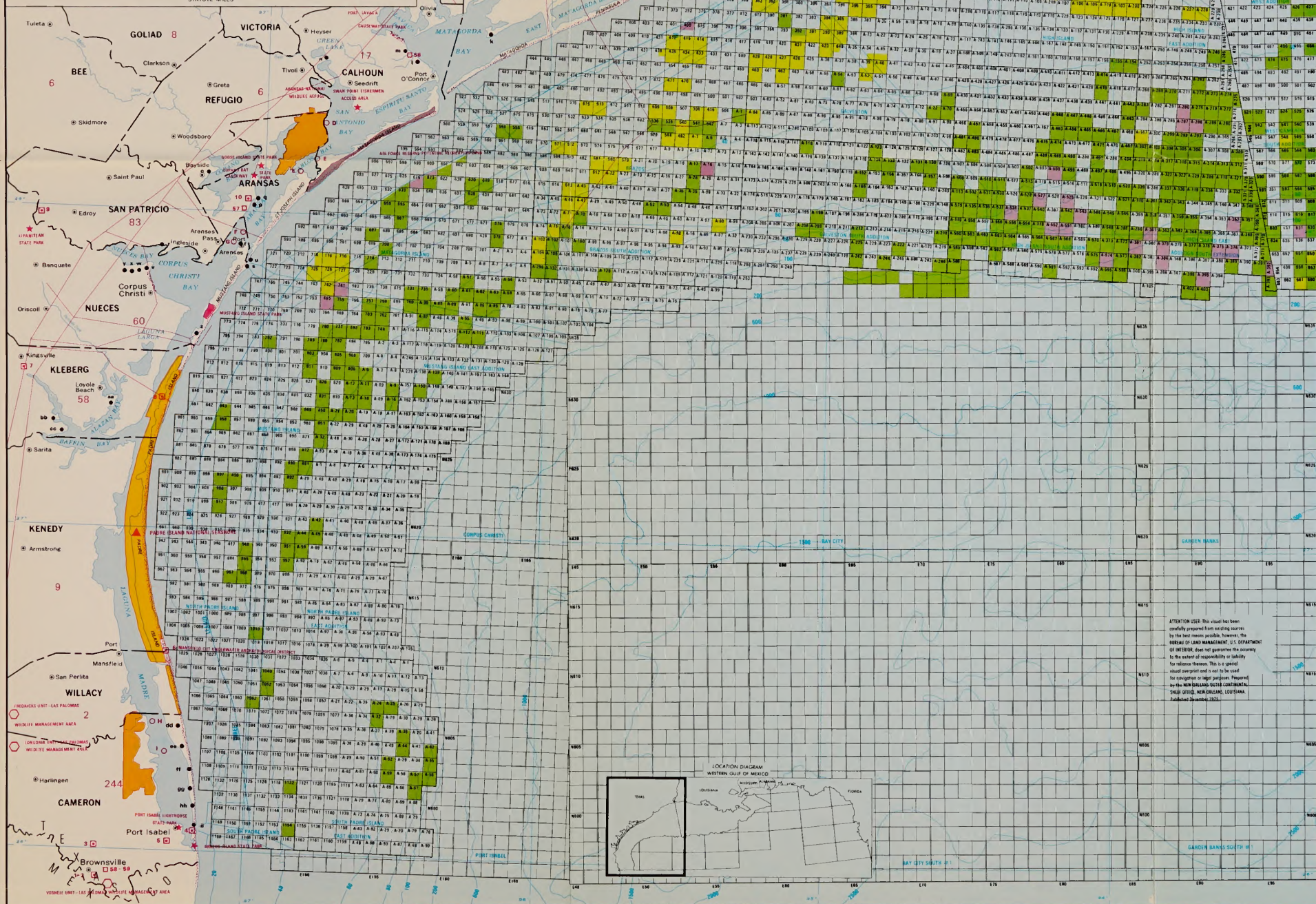
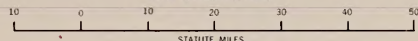
UNITED STATES DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT  
OUTER CONTINENTAL SHELF  
WESTERN GULF OF MEXICO  
LEASE STATUS RECREATION  
HISTORIC AND ARCHAEOLOGICAL RESOURCES



Numbers and letters in red are keyed on the back of this visual.

VISUAL NO. 1

SCALE 1:1,000,000 (APPROX)



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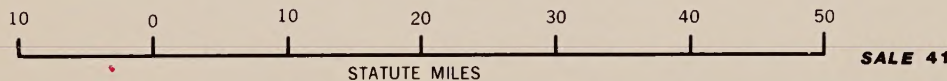
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HISTORIC AND ARCHAEOLOGICAL RESOURCES



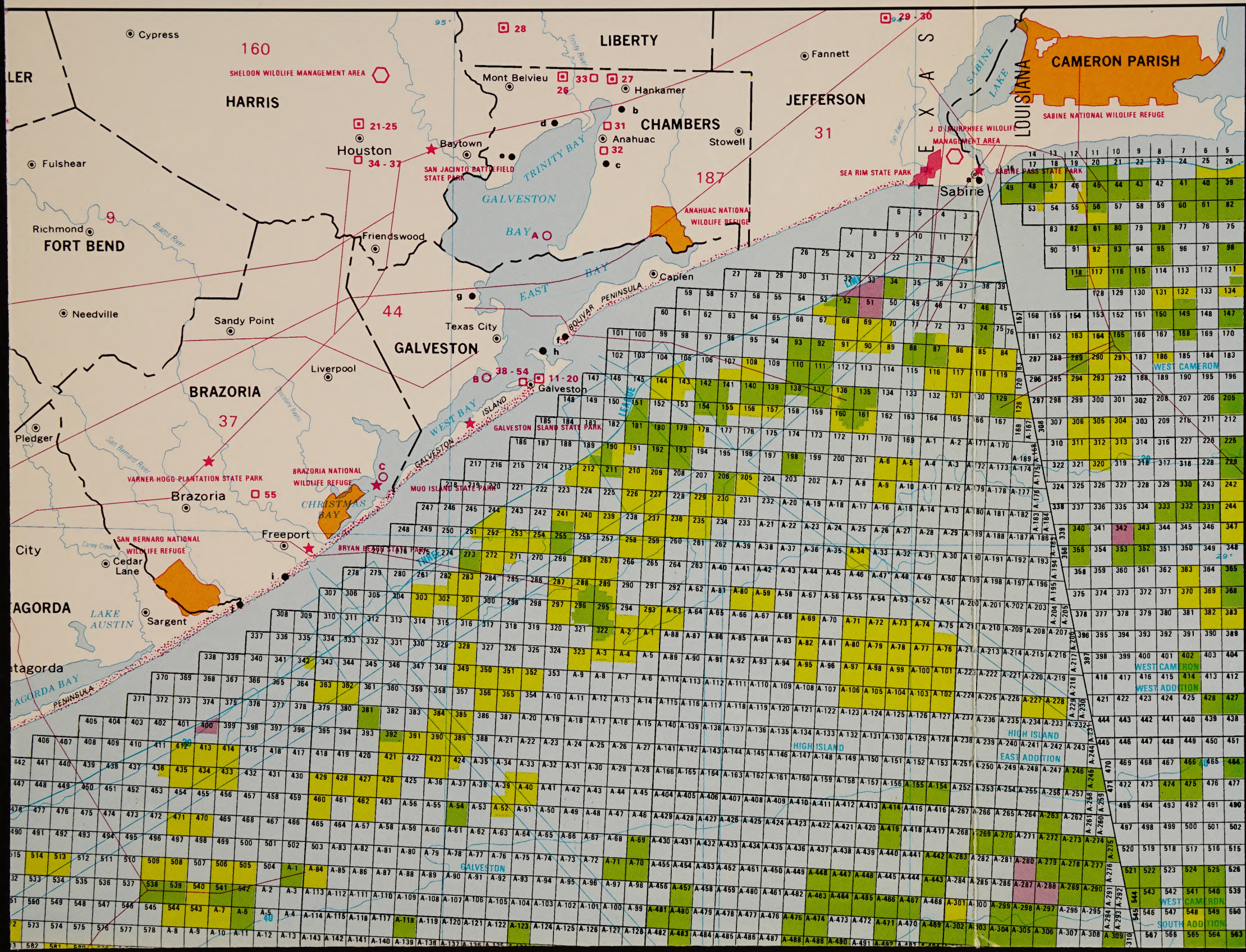
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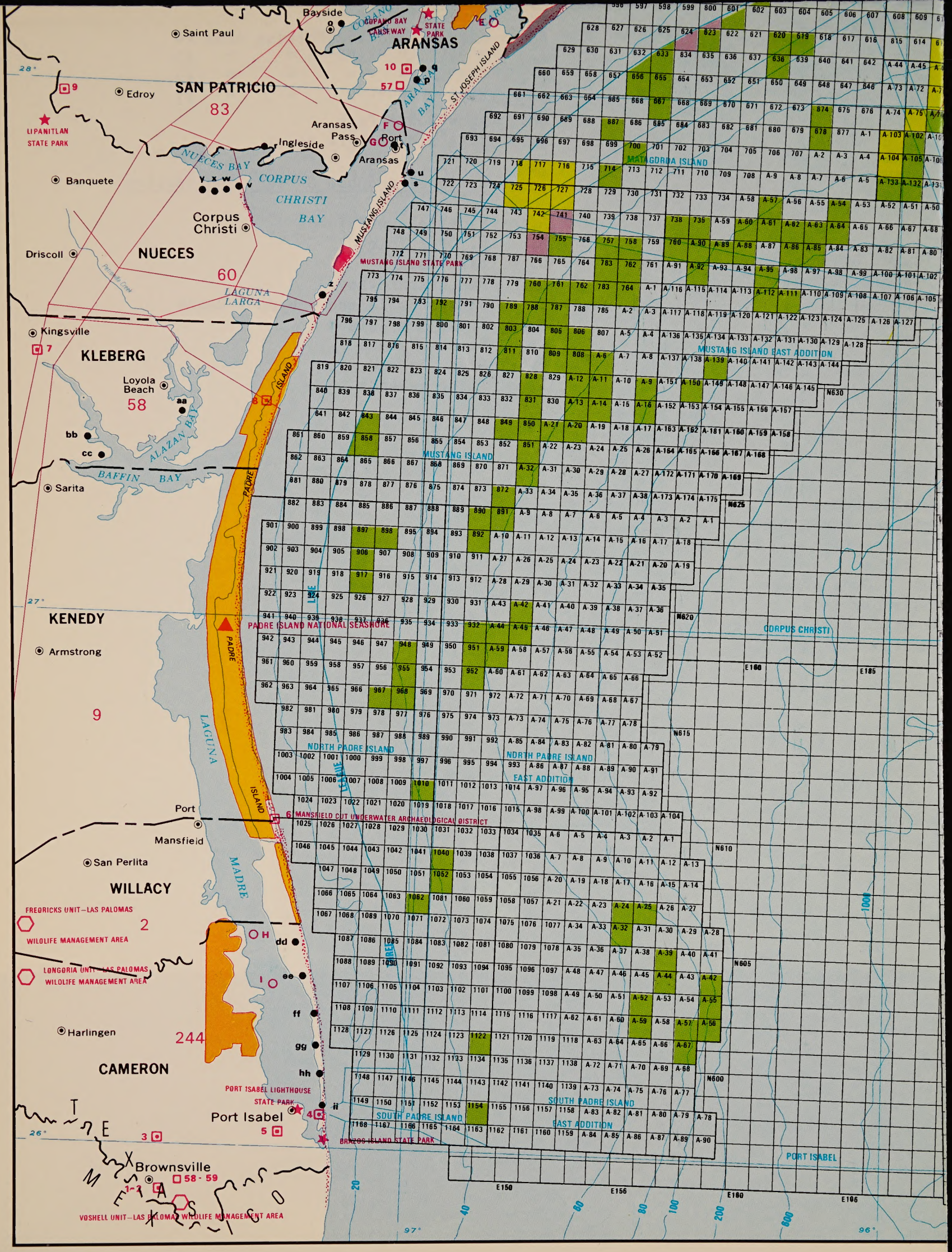
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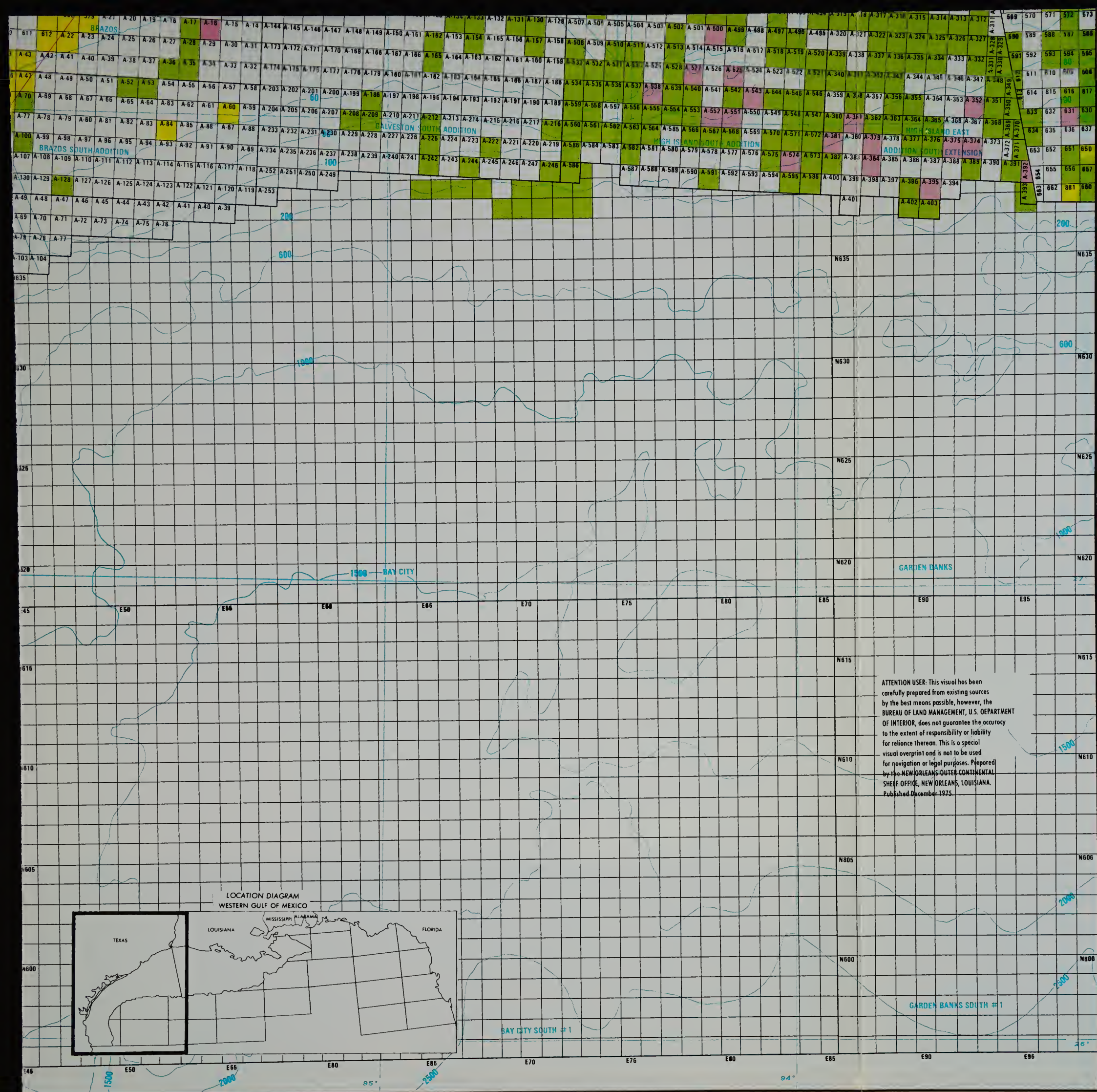














Sites Listed on the National Register  
of Historic Places

Texas

1. Fort Brown
2. Resaca de la Palma Battlefield
3. Palo Alto Battlefield
4. Brazos Santiago Depot
5. Garcia Pasture Site
6. Mansfield Cut Underwater  
Archaeology Dist.
7. King Ranch (Extends through Nueces, Kelberg,  
Kenedy, and Willacy Counties)
8. Dunn Ranch, Novillo Line Camp
9. James McGloin Homestead
10. Thomas H. Mathis House

Galveston

11. Ashbel Smith Building (Old Red)
12. Ashton Villa
13. Bishop Palace (Gresham House)
14. Grand Opera House
15. St. Mary's Cathedral
16. George Sealy House
17. The Strand Historic District
18. Trueheart-Adriance Building
19. U. S. Custom House (Old Galveston Custom House)
20. Samuel May Williams House

Houston

21. 1884 Houston Cotton Exchange Building
22. Pillot Building
23. Sweeny, Coombs, and Fredericks Building
24. U. S. Custom House
25. San Jacinto Battlefield
26. Site 41 CH110
27. Orcoquisac Archaeological Dist.
28. Suite 41 LB 4
29. French House Trading Post
30. McFadden House Complex

Additional Sites Chosen by Texas State Board of  
Review for Submission to the National Register

31. Chambers House
32. Fort Anahuac
33. Historic Indian Village
34. Annunciation Church
35. Cherry House
36. Harris County Boys School Site
37. Noble House
38. Walter G. Ansell House
39. Ball House
40. Building at 2127 Strand
41. Boulevard Dist.
42. Galveston County Museum (Old Moody Bank Building)
43. Hendley Building
44. Menard House
45. Gen. E. B. Nichols Building
46. J. F. Smith House
47. Trube House
48. Williams-Tucker House
49. House at 3301 Avenue L
50. House at 2134 Avenue M
51. House at 3518 Avenue M
52. House at 1725 Avenue M
53. House at 1522 21st Street
54. House at 1502 Market

(Over 600 significant structures in the city of Galveston are  
recorded in the files of the Texas State Historical Survey  
Commission.)

55. Levi Jordan Plantation
56. Indianola District
57. Fulton House
58. Fort Polk
59. Stillman House

County & Municipal Parks Along the Texas Gulf Coast

- |                                  |                                       |
|----------------------------------|---------------------------------------|
| a. Public Beach                  | i. Surside Beach                      |
| b. Fort Anahuac Park             | j. Quintana-Bryan Beach               |
| c. Job Benson Park               | k. Palacios Park and Fishing<br>Piers |
| d. Double Bayou Park             | l. Port O'Connor Park                 |
| e. McCollum Park                 | m. Indianola Park                     |
| f. Public Beach                  | n. Seadrift Bayfront City Park        |
| g. Bay Shore Park                | o. Bayside Park and Pier              |
| h. Pelican Island & Seawolf Park |                                       |

- |  |
|--|
| p. Rockport Beach                          |
| q. Navigation District #2                  |
| r. San Patricio County Park                |
| s. Port Aransas Park                       |
| t. Municipal Harbor (Port Aransas)         |
| u. County Fishing Piers (Port Aransas - 2) |
| v. Breakwater Park                         |
| w. OSO Pier                                |
| x. Bayfront Park                           |
| y. Cole Park                               |
| z. Nueces County Park                      |
| aa. Kleberg County Park                    |
| bb. Loyola Beach                           |
| cc. Riviera Beach                          |
| dd. Access Road and Parking Area #4        |
| ee. " " " " " #3                           |
| ff. " " " " " #2                           |
| gg. " " " " " #1                           |
| hh. Andy Bowie Park                        |
| ii. Isla Blanca Park No. 1                 |

National Audubon Society Sanctuaries

- |                                    |
|------------------------------------|
| A. Vingt-et-un Islands             |
| B. N. Deer Island                  |
| C. Bird Island                     |
| D. San Antonio Bay                 |
| E. Matagorda Island - Wynn's Ranch |
| F. Lydia Ann Island                |
| G. Harbor Island                   |
| H. Green Island                    |
| I. Three Islands                   |



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Texas

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43. Hendley Building



Board of  
Register

---

Building)

- p. Rockport Beach
- q. Navigation District #2
- r. San Patricio County Park
- s. Port Aransas Park
- t. Municipal Harbor (Port Aransas)
- u. County Fishing Piers (Port Aransas - 2)
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10. Thomas H. Mathis House

Galveston

- 11. Ashbel Smith Building (Old Red)
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- 56. Indianola District
- 57. Fulton House
- 58. Fort Polk
- 59. Stillman House

County & Municipal Parks Along the Texas Gulf

- |    |                               |    |
|----|-------------------------------|----|
| a. | Public Beach                  | i. |
| b. | Fort Anahuac Park             | j. |
| c. | Job Benson Park               | k. |
| d. | Double Bayou Park             |    |
| e. | McCollum Park                 | l. |
| f. | Public Beach                  | m. |
| g. | Bay Shore Park                | n. |
| h. | Pelican Island & Seawolf Park | o. |



cc. Riviera Beach  
dd. Access Road and Parking Area #4  
ee. " " " " " #3  
ff. " " " " " #2  
gg. " " " " " #1  
hh. Andy Bowie Park  
ii. Isla Blanca Park No. 1

National Audubon Society Sanctuaries

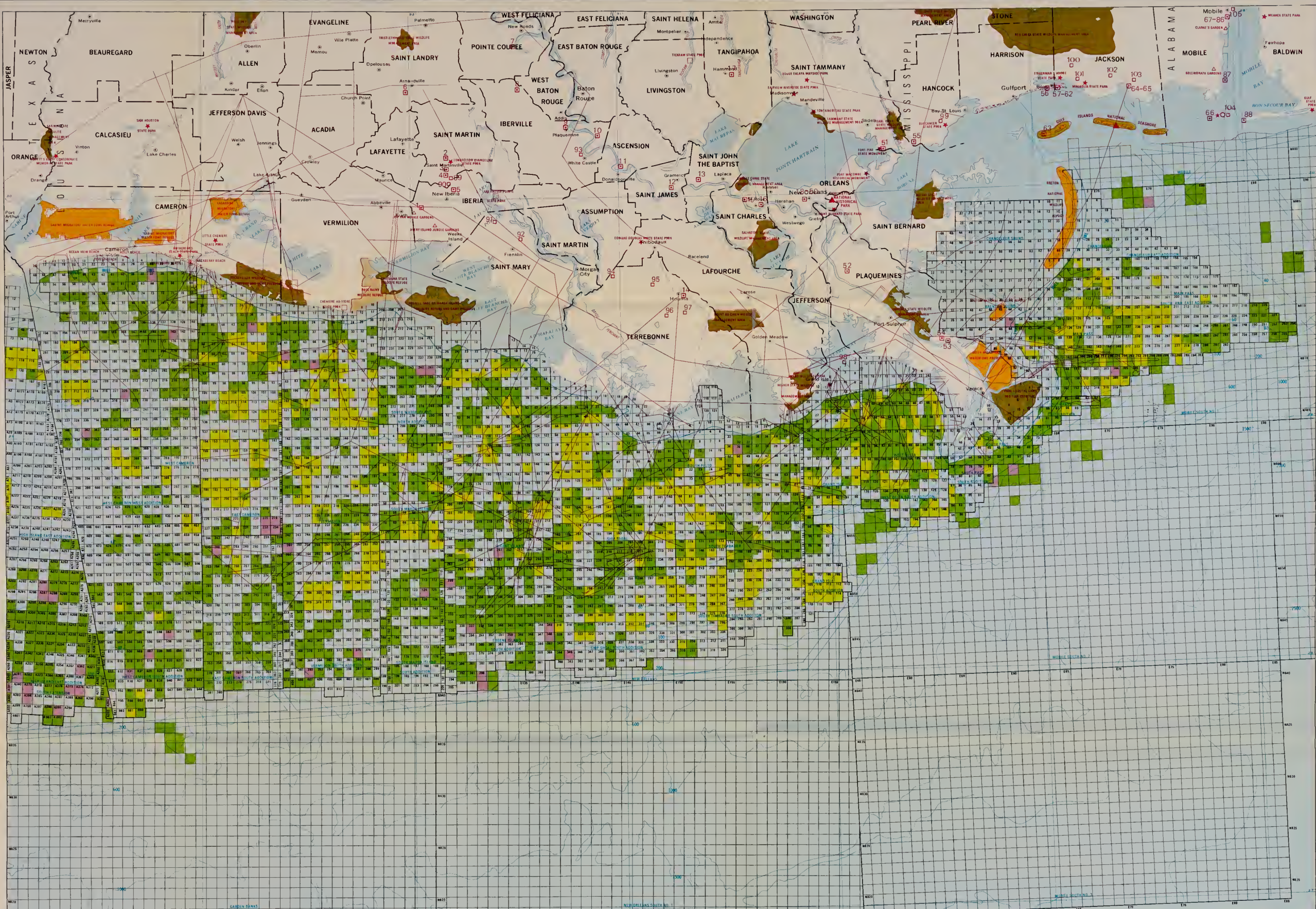
A. Vingt-et-un Islands  
B. N. Deer Island  
C. Bird Island  
D. San Antonio Bay  
E. Matagorda Island - Wynn's Ranch  
F. Lydia Ann Island  
G. Harbor Island  
H. Green Island  
I. Three Islands

city of Galveston are  
Historical Survey

Coast

Surside Beach  
Quintana-Bryan Beach  
Palacios Park and Fishing  
Piers  
Port O'Connor Park  
Indianola Park  
Seadrift Bayfront City Park  
Bayside Park and Pier





Numbers in red are keyed on the back of this visual.

**SALE 41**

Prepared in cooperation with proposed  
BCLM lease sale no. 41

**VISUAL NO. 1**

**United States Department of Interior**  
**Bureau of Land Management**  
**Outer Continental Shelf**  
**Central Gulf of Mexico**

**Lease Status**  
**Archaeological**  
**Recreation and**  
**Historic Resources**

**Bureau of Land Management**  
**Library Service Center**  
**Denver, Colorado**

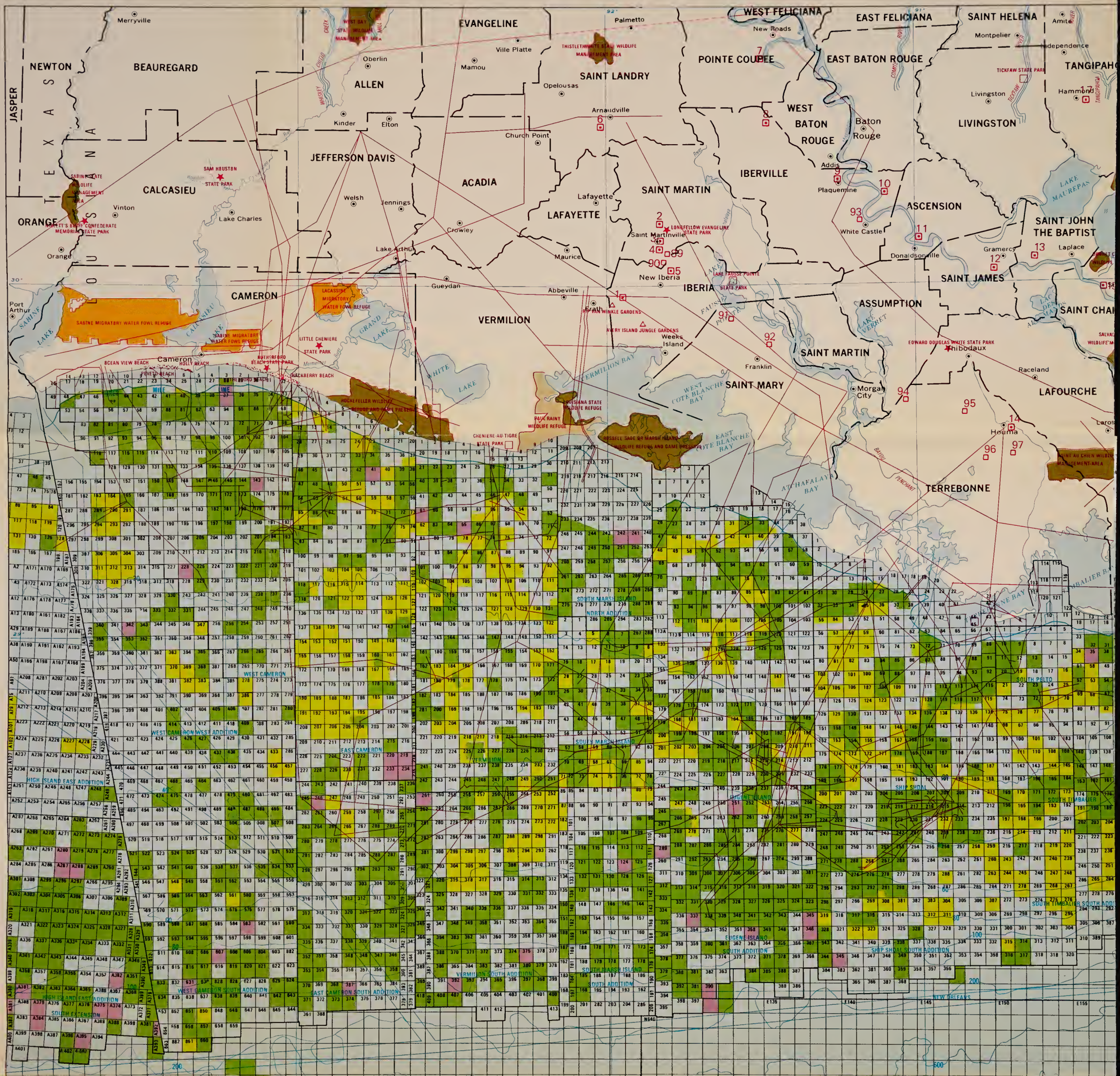
**Legend:**

- COUNTY BOUNDARIES
- NATIONAL WILDLIFE REFUGES
- NATIONAL PARK SERVICE AREA
- NATIONAL REGISTER HISTORIC SITES
- HISTORIC SITES
- STATE WILDLIFE MANAGEMENT AREAS
- STATE PARKS AND MONUMENTS
- PROPOSED STATE PARKS OR MONUMENTS
- RECREATIONAL BEACHES
- NUMBER OF REPORTED ARCHAEOLOGICAL SITES PER COUNTY
- WILD AND SCENIC RIVERS
- ORNAMENTAL GARDENS
- PRIVATE WILDLIFE REFUGE
- WATER DEPTH (METERS)
- FAIRWAYS AND ANCHORAGE AREAS
- OIL AND/OR GAS PIPELINES
- ACTIVE LEASES
- EXPIRED LEASES
- PROPOSED TRACTS FOR LEASING

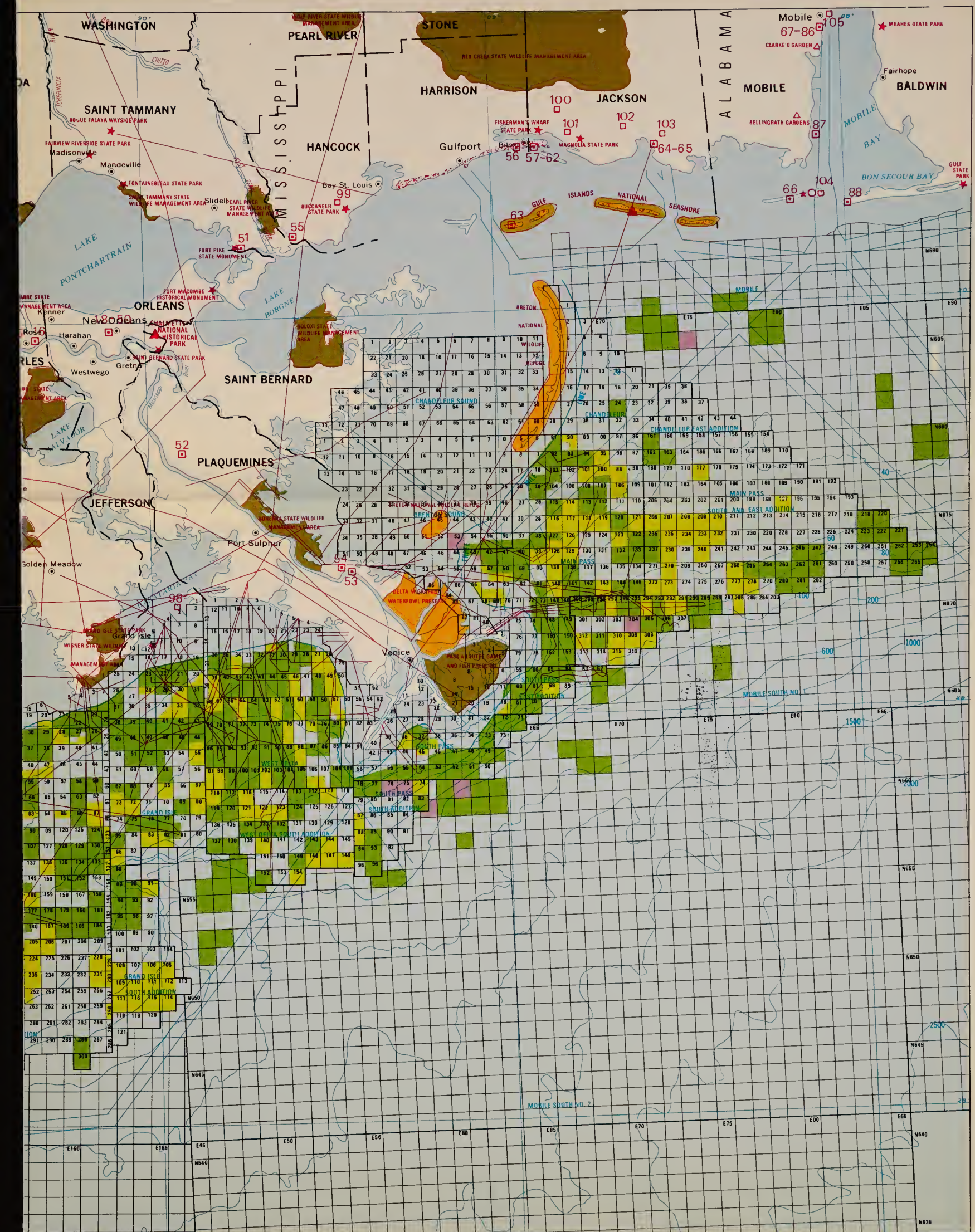
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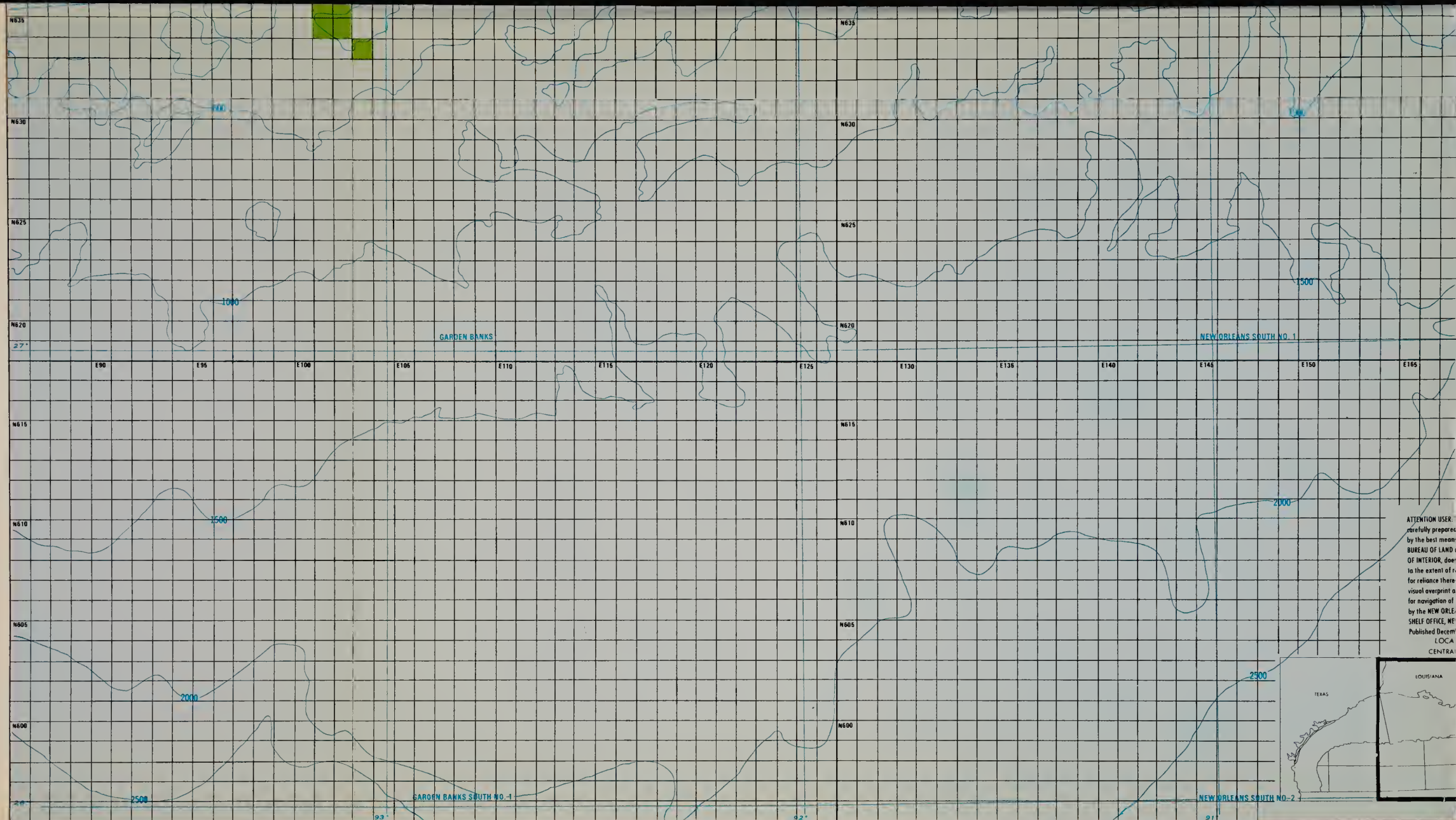




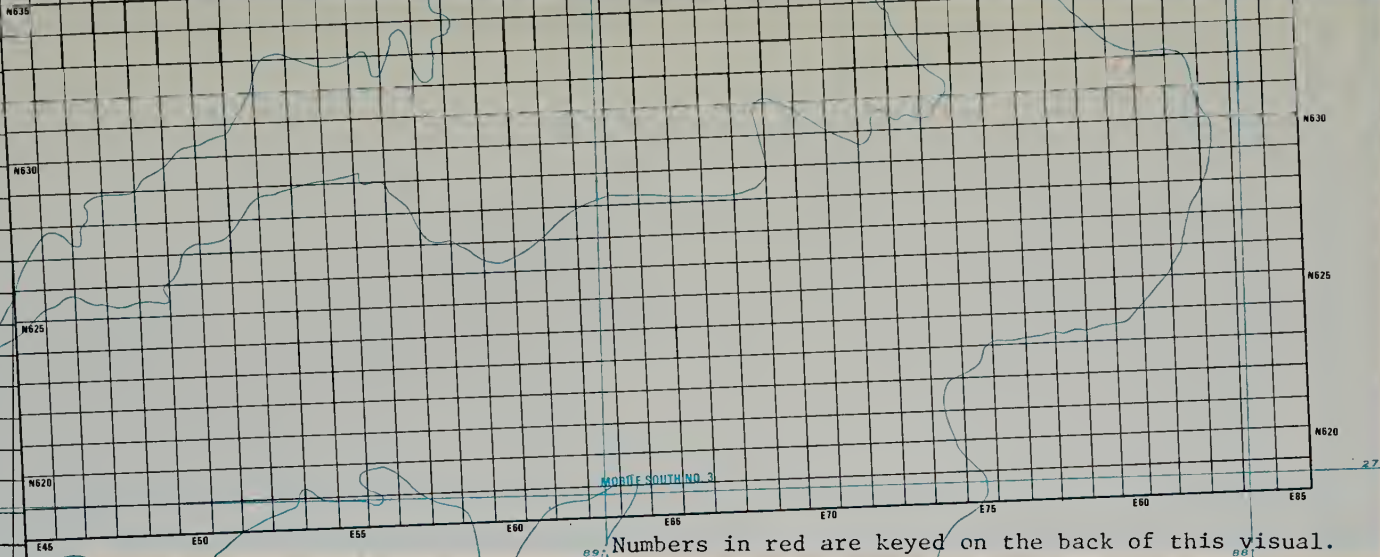












SALE 41

# UNITED STATES DEPARTMENT OF INTERIOR BUREAU OF LAND MANAGEMENT OUTER CONTINENTAL SHELF CENTRAL GULF OF MEXICO

LEASE STATUS  
ARCHAEOLOGICAL  
RECREATION AND  
HISTORIC RESOURCES

Prepared in conjunction with proposed  
OCS lease sale no. 41

VISUAL NO. 1



COUNTY BOUNDARIES



NATIONAL WILDLIFE REFUGES



NATIONAL PARK SERVICE AREA



NATIONAL REGISTER HISTORIC SITES



HISTORIC SITES



STATE WILDLIFE MANAGEMENT AREAS



STATE PARKS AND MONUMENTS



PROPOSED STATE PARKS OR MONUMENTS



RECREATIONAL BEACHES



34 NUMBER OF REPORTED ARCHAEOLOGICAL  
SITES PER COUNTY



WILD AND SCENIC RIVERS



ORNAMENTAL GARDENS



PRIVATE WILDLIFE REFUGE



1600 WATER DEPTH (METERS)



FAIRWAYS AND ANCHORAGE AREAS



OIL AND/OR GAS PIPELINES



ACTIVE LEASES



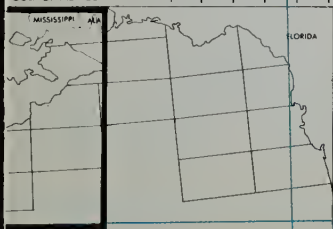
EXPIRED LEASES



PROPOSED TRACTS FOR LEASING



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Sites Listed on the National Register of  
Historical Places

Louisiana

1. Joseph Jefferson House
2. Acadian House
3. U. S. Post Office, St. Martinville
4. St. Martin of Tours Catholic Church
5. Shadows-on-the-Teche Plantation
6. Scared Heart Academy
7. Parlange Plantation House
8. Live Oaks Plantation
9. Bayou Plaquemines Lock
10. St. Gabriel Roman Catholic Church
11. The Hermitage
12. Oak Alley Plantation
13. San Francisco Plantation House
14. Southdown Plantation
15. Home Place Plantation
16. Destrehan Plantation
17. Grace Memorial Episcopal Church

New Orleans Sites

18. Bank of Louisiana
19. Big Oak-Little Oak Islands
20. The Cabildo
21. George Washington Cable House
22. French Market - Old Meat Market
23. French Market - Old Vegetable Market
24. Callier House
25. The Garden District
26. General Laundry Building
27. Nicholas Girod House
28. Hermann-Crima House
29. Jackson Square
30. Lafayette Cemetery No. 1
31. Lafitte's Blacksmith Shop
32. Lower Garden District
33. Madame John's Legacy
34. Merieult House
35. Old Ursuline Convent
36. Old U. S. Mint, New Orleans
37. Perseverance Hall
38. Pitot House (Ducayet House)
39. The Presbytere
40. Jean Louis Rabassa (McDonogh No. 18 School Annex)
41. St. Alphonsus Roman Catholic Church
42. St. Charles Streetcar Line
43. St. Mary's Assumption Church
44. Turpin-Kofler-Buja House
45. U. S. Court of Appeals - Fifth Circuit

46. U. S. Custom House
47. Vieux Carre' Historic District
48. James H. Dillard House
49. Faubourg Marigny
50. St. Patrick's Church
51. Fort Pike (Also State Monument)
52. Ft. de la Boulaye
53. Ft. Jackson
54. Ft. St. Philip

Mississippi

55. Jackson Landing Site
56. Beauvoir (Jefferson Davis Home)

Biloxi Sites

57. Biloxi Garden Center (Old Brick House)
58. Biloxi Lighthouse
59. Gillis House
60. Magnolia Hotel
61. Margaret Emilie (Schooner)
62. Milner House (Crass Lawn)
63. Fort Massachusetts
64. Louisville and Nashville Railroad Depot
65. U. S. S. Cairo

Alabama

66. Indian Mound Park - Dauphin Island

Mobile Sites

67. Barton Academy
68. Bishop Portier House
69. Bragg-Mitchell House
70. Brisk and Jacobson Store
71. Carolina Hall (Yesterhouse, Dawson-Purdue House)
72. Church Street East Historic District
73. City Hall
74. De Tonti Square Historic District
75. Fort Conde'-Charlotte Site
76. Cates-Davis House
77. Georgia Cottage
78. Martin Horst House
79. Kirkbride House (Fort Conde'-Charlotte House)
80. Oakleigh
81. Oakleigh Garden Historic District (Washington Square)
82. Old City Hospital
83. Protestant Children's Home
84. Raphael Semmes Home

85. Spring Hill College Quadrangle
86. U. S. Marine Hospital
87. Middle Bay Light
88. Fort Morgan

(Additional National Register sites in the Alabama Coastal Zone but lying beyond the map border are:

Blakley - N. of Bridgehead  
Battle Creek Indian Mounds - W. of Stockton  
Fort Mims Site - Tensaw Vicinity  
Seaboard Bluff (Nanna Hubba Bluff) - NW of Stockton  
Ellicot Stone - N. of Mobile

Other Central Gulf Historic Sites

89. Evangeline Oak
90. Darby Plantation
91. Albania Historic Site
92. Oaklawn Manor
93. Munell House
94. Indian Mounds
95. Ellendale Plantation
96. Indian Mounds
97. Indian Mounds
98. Ft. Livingston
99. Poverty Point
100. Ft. Maurepas
101. Old Indian Springs
102. Craveline Mounds
103. Old Spanish Fort
104. Fort Caines
105. U. S. Alabama Memorial Park



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27. Nicholas Girod House
28. Hermann-Grima House
29. Jackson Square
30. Lafayette Cemetery No. 1
31. Lafitte's Blacksmith Shop
32. Lower Garden District
33. Madame John's Legacy
34. Merieult House
35. Old Ursuline Convent

46. U. S. Cu
47. Vieux Ca
48. James H.
49. Faubourg
50. St. Patr
51. Fort Pik
52. Ft. de l
53. Ft. Jack
54. Ft. St.

Mississippi

55. Jackson
56. Beauvoir

57. Biloxi G
58. Biloxi L
59. Gillis H
60. Magnolia
61. Margaret
62. Milner H
63. Fort Mas
64. Louisvil
65. U. S. S.

Alabama

66. Indian M
67. Barton A
68. Bishop P
69. Bragg-Mi
70. Brisk an
71. Carolina
72. Church S
73. City Hal
74. De Tonti
75. Fort Con



atom House  
re' Historic District  
Dillard House  
Marigny  
ck's Church  
(Also State Monument)  
Boulaye  
on  
Philip

anding Site  
(Jefferson Davis Home)

Biloxi Sites  
arden Center (Old Brick House)  
ghthouse  
ouse  
Hotel  
Emilie (Schooner)  
use (Grass Lawn)  
achusetts  
e and Nashville Railroad Depot  
Cairo

und Park - Dauphin Island

Mobile Sites

cademy  
ortier House  
chell House  
Jacobson Store  
Hall (Yesterhouse, Dawson-Purdue House)  
street East Historic District  
Square Historic District  
e'-Charlotte Site

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#### Other Central Gulf Historic Sites

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99. Poverty Point
100. Ft. Maurepas
101. Old Indian Springs
102. Graveline Mounds
103. Old Spanish Fort
104. Fort Gaines
105. U. S. Alabama Memorial Park



- |   |              |
|---|--------------|
| 36. Old U. S. Mint, New Orleans                       | 76. Gates-Da |
| 37. Perseverance Hall                                 | 77. Georgia  |
| 38. Pitot House (Ducaet House)                        | 78. Martin H |
| 39. The Presbytere                                    | 79. Kirkbrid |
| 40. Jean Louis Rabassa (McDonogh No. 18 School Annex) | 80. Oakleigh |
| 41. St. Alphonsus Roman Catholic Church               | 81. Oakleigh |
| 42. St. Charles Streetcar Line                        | 82. Old City |
| 43. St. Mary's Assumption Church                      | 83. Protesta |
| 44. Turpin-Kofler-Buja House                          | 84. Raphael  |
| 45. U. S. Court of Appeals - Fifth Circuit            |              |



ris House  
Cottage  
rst House  
e House (Fort Conde'-Charlotte House)

Garden Historic District (Washington Square)  
Hospital  
t Children's Home  
emmes Home





UNITED STATES DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT  
OUTER CONTINENTAL SHELF  
EASTERN GULF OF MEXICO

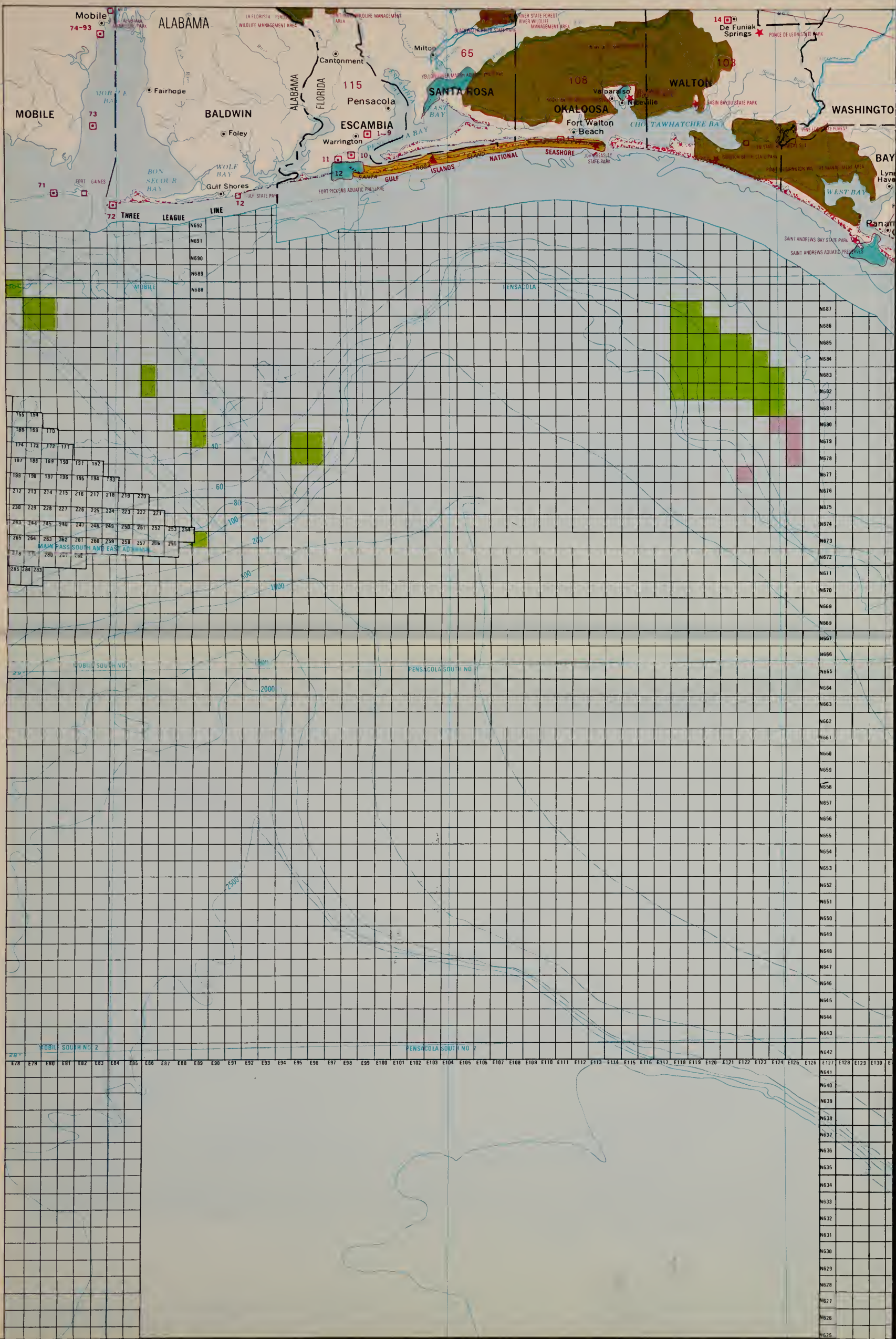
Visual No. 1

COUNTY BOUNDARIES	WILDLIFE MANAGEMENT AREAS	WATER DEPTH (METERS)
NATIONAL WILDLIFE REFUGES	LARGE STATE PARK	CANOE TRAILS
NATIONAL PARK SERVICE AREA	SMALL STATE PARKS	AQUATIC PRESERVES
NATIONAL REGISTER HISTORIC SITES	RECREATION BEACH	FAIRWAYS AND ANCHORAGE AREAS
HISTORIC SITES	STATE FOREST	OIL AND/OR GAS PIPELINES
NATIONAL FOREST	NUMBER OF REPORTED ARCHAEOLOGICAL SITES PER COUNTY	ACTIVE LEASES
NATIONAL NATURAL LANDMARK	WILD AND SCENIC RIVERS	NONE
		PROPOSED TRACTS FOR LEASING

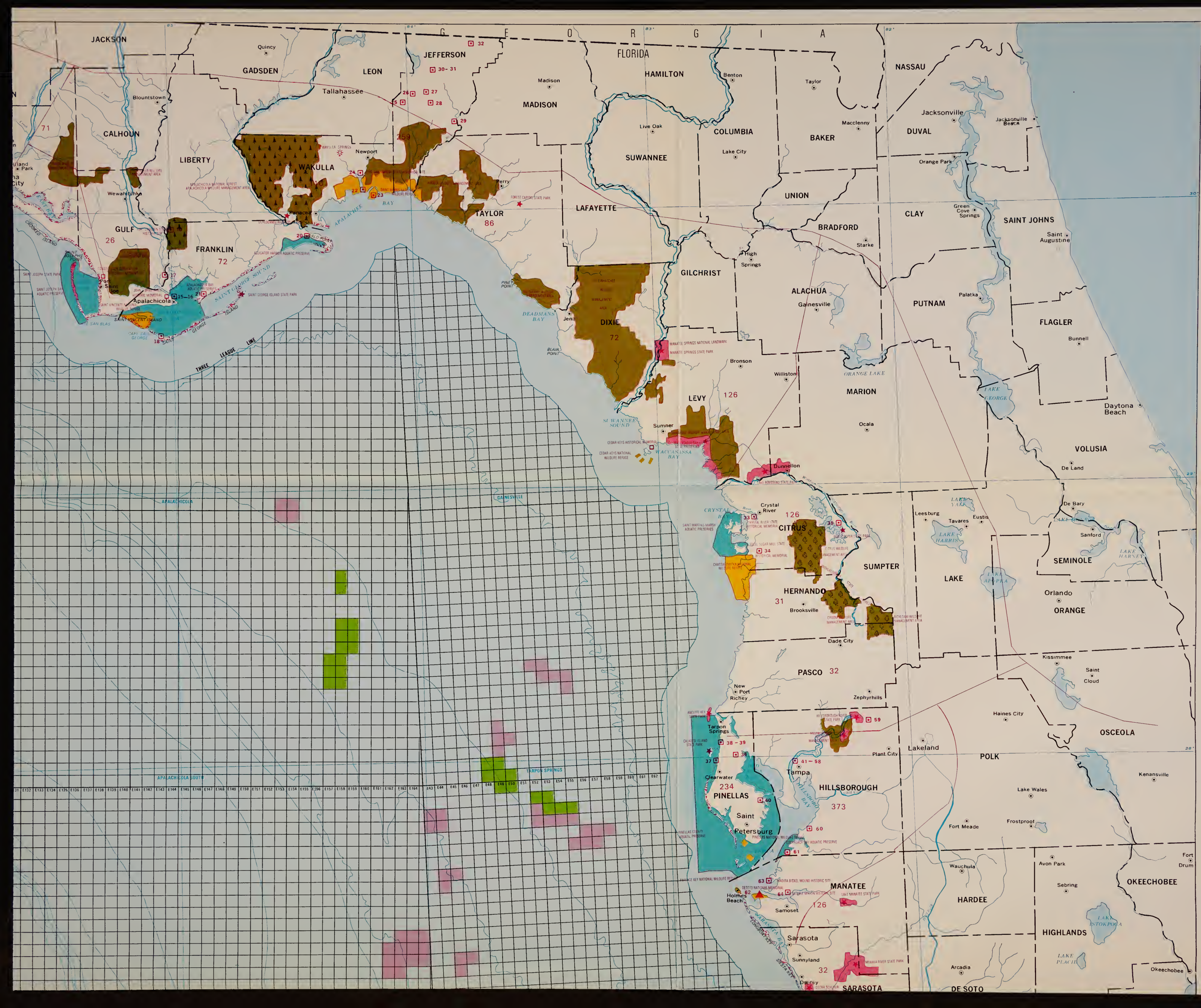
Numbers in red are keyed on the back of this visual.

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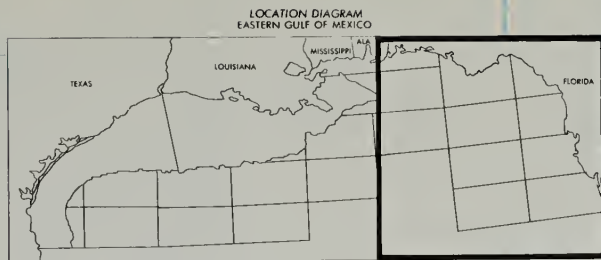
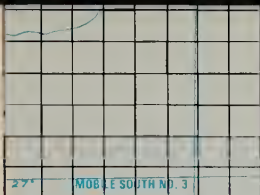












SCALE 1:1,000,000 (APPROX.) 10 0 10 20 30 40 50 STATUTE MILES

Prepared in conjunction with proposed  
OCS lease sale no. 41  
SALE 41

# UNITED STATES DEPARTMENT OF INTERIOR BUREAU OF LAND MANAGEMENT

## OUTER CONTINENTAL SHELF EASTERN GULF OF MEXICO

LEASE STATUS  
RECREATION  
HISTORIC AND  
ARCHAEOLOGICAL  
RESOURCES

VISUAL NO. 1



COUNTY BOUNDARIES



NATIONAL WILDLIFE REFUGES



NATIONAL PARK SERVICE AREA



NATIONAL REGISTER HISTORIC SITES



HISTORIC SITES



NATIONAL FOREST



NATIONAL NATURAL LANDMARK



WILDLIFE MANAGEMENT AREAS



LARGE STATE PARK



SMALL STATE PARKS



RECREATION BEACH



STATE FOREST



NUMBER OF REPORTED ARCHAEOLOGICAL  
SITES PER COUNTY



WILD AND SCENIC RIVERS



WATER DEPTH (METERS)



CANOE TRAILS



AQUATIC PRESERVES



FAIRWAYS AND ANCHORAGE AREAS



OIL AND/OR GAS PIPELINES



ACTIVE LEASES



EXPIRED LEASES



PROPOSED TRACTS FOR LEASING

Bureau of Land Management  
Library  
Blanchard Service Center

Numbers in red are keyed on the back of this visual.

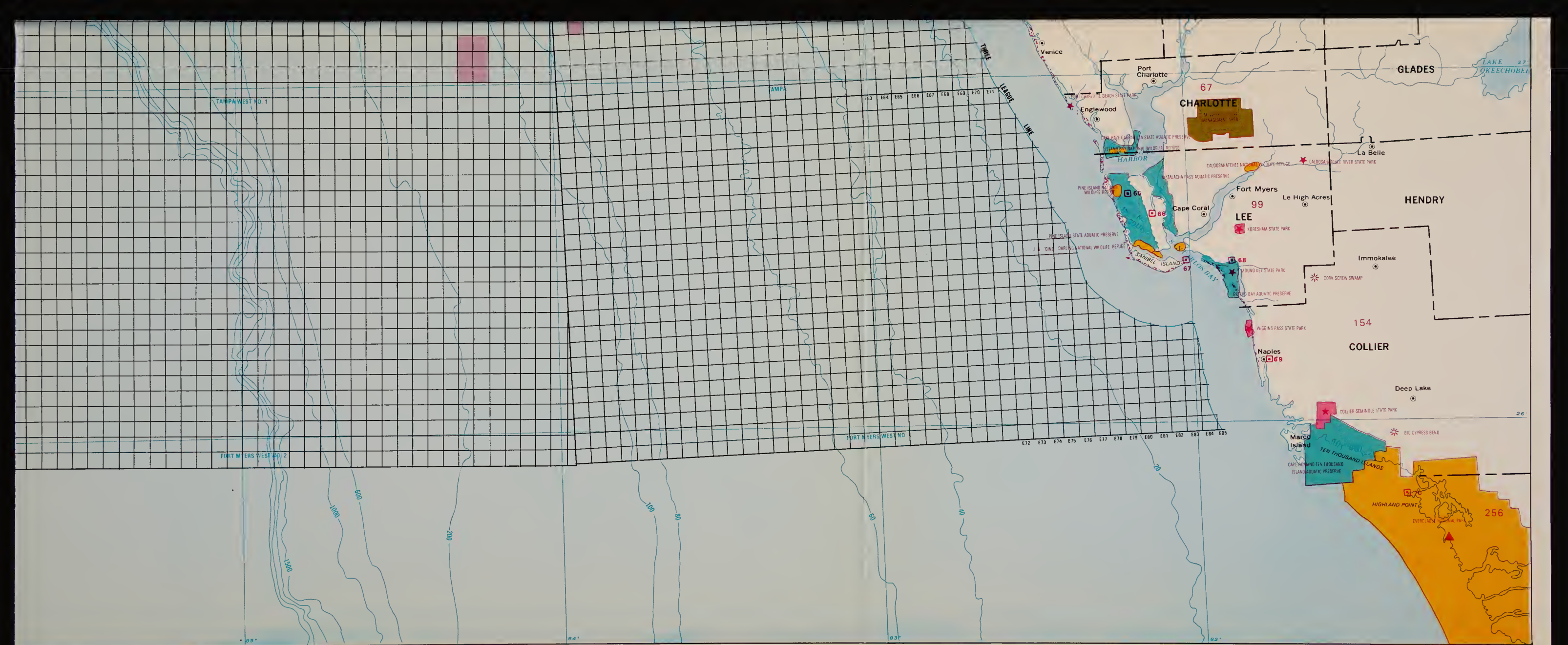
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#4785702

ID: 7307643

TD115.P4 G355 1976 v.3







Sites Listed on the National Register of  
Historic Places in Eastern Gulf of Mexico  
Coastal Counties

Florida

Pensacola

1. Lavalle House
2. Pensacola Historic District
3. Plaza Ferdinand VII
4. Old Christ Church
5. St. Michael's Creole Benevolent Association Hall
6. Buccaneer (Schooner)
7. Clara Berkley Dorr House
8. Fort George Site
9. Fort San Carlos de Barrancas
10. L and N Marine Terminal Building
11. Pensacola Lighthouse and Keeper's Quarters
12. Fort Pickens
13. Fort Walton Mound
14. Chautauqua Auditorium
15. David C. Raney House
16. Trinity Episcopal Church
17. Pierce Site
18. Cape St. George Light
19. Fort Gadsden Historic Memorial
20. Yent Mound
21. Porter's Bar Site
22. Bird Hammock
23. St. Marks Lighthouse
24. Fort San Marcos de Apalache
25. San Juan de Aspalaga Site
26. San Joseph de Ocuja Site
27. Lloyd Railroad Depot
28. Asa May House
29. San Miguel de Asile Mission Site
30. Perkins Opera House
31. Wirick - Simmons House
32. Lyndhurst Plantation
33. Crystal River Indian Mounds
34. Yulee Sugar Mill Ruins
35. Fort Cooper
36. Safety Harbor Site
37. Andrews Memorial Chapel
38. Tarpon Springs Sponge Exchange
39. Safford House
40. Weedon (Weedon) Island Site

Tampa

41. Circulo Cubano de Tampa (Cuban Club)
42. El Pasaje (Cherokee Club)
43. Tampa Bay Hotel
44. Ybor Factory Building
45. Ybor City Historic District
46. Chapin House
47. Centro Asturiano
48. El Centro Espanol of W. Tampa
49. Federal Building, U. S. Courthouse, Downtown Postal Station
50. House at 1415 N. Franklin St.
51. Johnson-Wolff House
52. Leiman House
53. Levick House
54. Old School House, Lafayette St.
55. Stovall House
56. T. C. Taliaferro House
57. Tampa City Hall
58. Union Railroad Station
59. Fort Foster
60. George MCA. Miller House
61. Cockroach Key
62. De Soto National Memorial
63. Madira Bickel Mound
64. Robert Gamble House (Judah P. Benjamin Memorial)
65. Demere Key
66. Pineland Site
67. Sanibel Lighthouse and Keeper's Quarters
68. Mound Key
69. Seaboard Coastline Railroad Depot
70. Ted Smallwood Store (Chokoloskee Is.)

Alabama

71. Indian Mound Park
72. Fort Morgan
73. Middle Bay Light

Mobile

74. Barton Academy
75. Bishop Portier House
76. Bragg-Mitchell House
77. Brisk and Jacobson Store
78. Carolina Hall
79. Church Street East
80. City Hall
81. De Tonti Square Historic District
82. Fort Conde'-Charlotte Site
83. Gates-Davis House

84. Georgia Cottage
85. Martin Horst House
86. Kirkbride House
87. Oakleigh
88. Oakleigh Garden Distoric District
89. Old City Hospital
90. Protestant Children's Home
91. Raphael Semmes Home
92. Spring Hill College Quadrangle
93. U. S. Marine Hospital



Sites Listed on the National Register of  
Historic Places in Eastern Gulf of Mexico  
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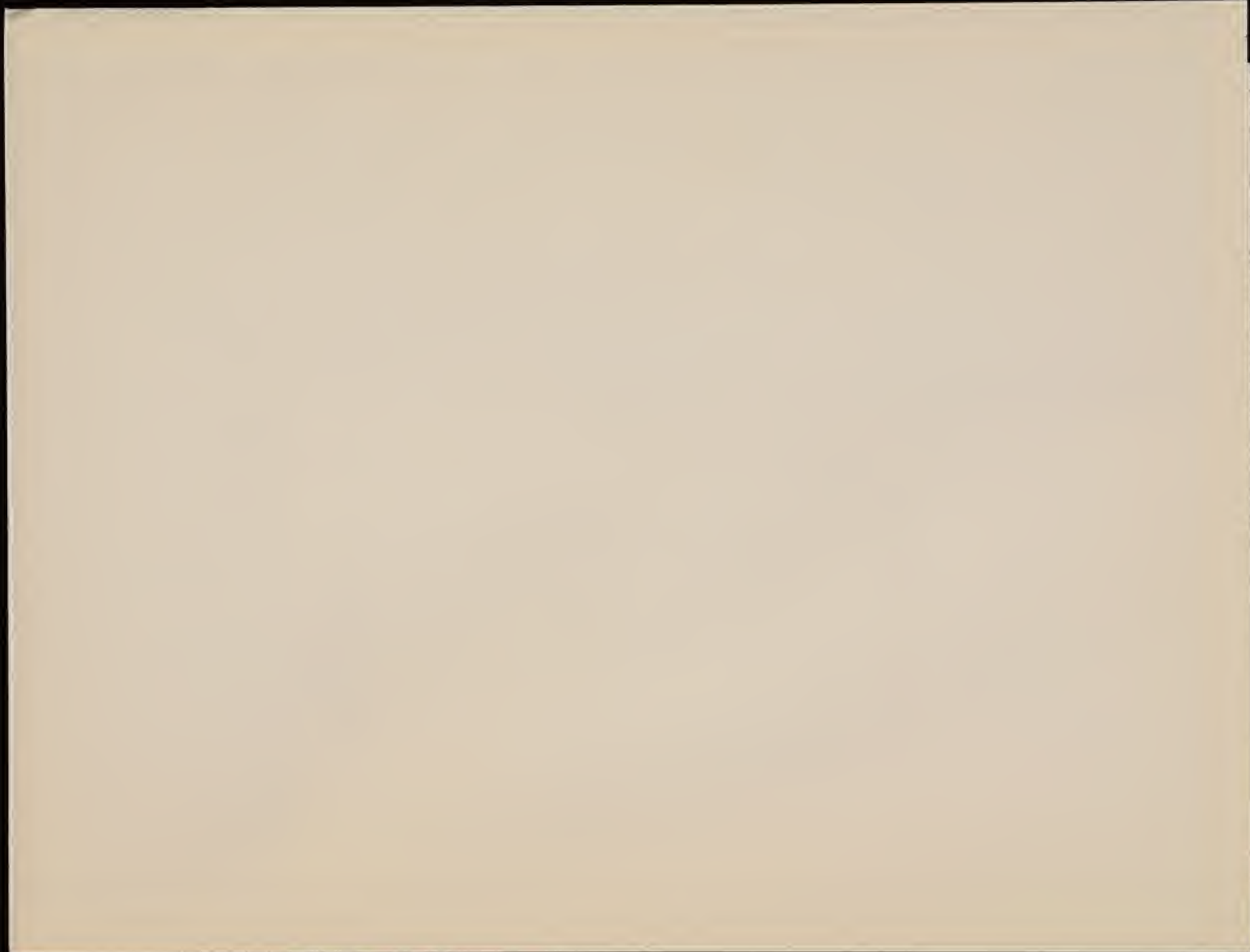


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88. Oakleigh Garden Distoric District
89. Old City Hospital
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93. U. S. Marine Hospital











UNITED STATES DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT  
OUTER CONTINENTAL SHELF  
GULF OF MEXICO AND ATLANTIC OCEAN  
TROPICAL STORMS IN THE GULF OF MEXICO AND ATLANTIC OCEAN 1954-1975

VISUAL NO. 2

SCALE 1:2,160,000

Bureau of Land Management  
Library  
Denver Service Center

- Selected major tropical storms with windspeeds of 100mph\* and above, from 1954-1975 in the Gulf of Mexico and Atlantic Ocean
- |                            |                             |
|----------------------------|-----------------------------|
| 8/25 - 9/1/1954 (Carol)    | 8/20 - 9/6/1964 (Cleo)      |
| 9/2 - 9/15/1954 (Edna)     | 8/31 - 9/16/1964 (Dora)     |
| 10/5 - 10/19/1954 (Hazel)  | 9/28 - 10/6/1964 (Hilda)    |
| 8/3 - 8/15/1955 (Connie)   | 10/8 - 10/17/1964 (Isbell)  |
| 8/7 - 8/22/1955 (Diane)    | 8/26 - 9/13/1965 (Betsy)    |
| 9/10 - 9/24/1955 (Irene)   | 6/4 - 6/15/1966 (Alma)      |
| 8/9 - 8/20/1956 (Betsy)    | 9/21 - 10/12/1966 (Inez)    |
| 6/25 - 6/29/1957 (Audrey)  | 9/5 - 9/23/1967 (Beulah)    |
| 8/24 - 9/1/1958 (Daisy)    | 6/22 - 6/26/1968 (Candy)    |
| 8/30 - 9/7/1958 (Ella)     | 8/13 - 8/23/1969 (Camille)  |
| 9/21 - 10/4/1958 (Helene)  | 9/5 - 9/11/1969 (Gerda)     |
| 9/20 - 10/3/1959 (Gracie)  | 10/16 - 10/27/1969 (Laurie) |
| 8/29 - 9/14/1960 (Dennis)  | 7/30 - 8/6/1970 (Celia)     |
| 9/14 - 9/18/1960 (Ethel)   | 8/10 - 8/18/1971 (Beth)     |
| 9/3 - 9/16/1961 (Carla)    | 9/5 - 9/18/1971 (Edith)     |
| 10/15 - 10/20/1963 (Ginny) | 9/3 - 9/13/1971 (Fern)      |
- Selected minor tropical storms with windspeeds of less than 100mph\*, 1954-1975 in the Gulf of Mexico and Atlantic Ocean
- |                                     |                           |
|-------------------------------------|---------------------------|
| 6/24 - 6/27/1954 (Alice)            | 9/21 - 10/1/1956 (Flossy) |
| 6/8 - 6/15/1957 (Tropical Storm 1)  | 8/8 - 8/12/1957 (Bertha)  |
| 6/17 - 6/22/1959 (Tropical Storm 3) | 7/22 - 7/28/1959 (Debra)  |
| 10/17 - 10/22/1959 (Judith)         | 8/26 - 9/3/1962 (Alma)    |
| 10/13 - 10/22/1960 (Gladys)         | 8/20 - 8/29/1971 (Doria)  |
| 6/15 - 6/23/1972 (Agnie)            |                           |
- \*Indicates minimum wind speed for a portion of the tropical storm track during the history of the maps.
- Source: U.S. Department of Commerce  
National Oceanic and Atmospheric Administration  
National Weather Service  
National Hurricane Center  
Land Station, Miami
- Printed on 100% recycled paper with vegetable oil inks.





UNITED STATES DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT  
OUTER CONTINENTAL SHELF  
GULF OF MEXICO AND ATLANTIC OCEAN

TROPICAL STORMS IN THE GULF OF MEXICO AND ATLANTIC OCEAN 1954-1975

VISUAL NO. 2

SCALE 1:2,160,000

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- 8/10 - 8/18/1971 (Beth)
- 9/5 - 9/18/1971 (Edith)
- 9/3 - 9/13/1971 (Fern)

- 9/5 - 10/5/1971 (Ginger)
- 8/31 - 9/10/1974 (Carmen)
- 8/24 - 9/1/1975 (Caroline)
- 9/13 - 9/24/1975 (Eloise)

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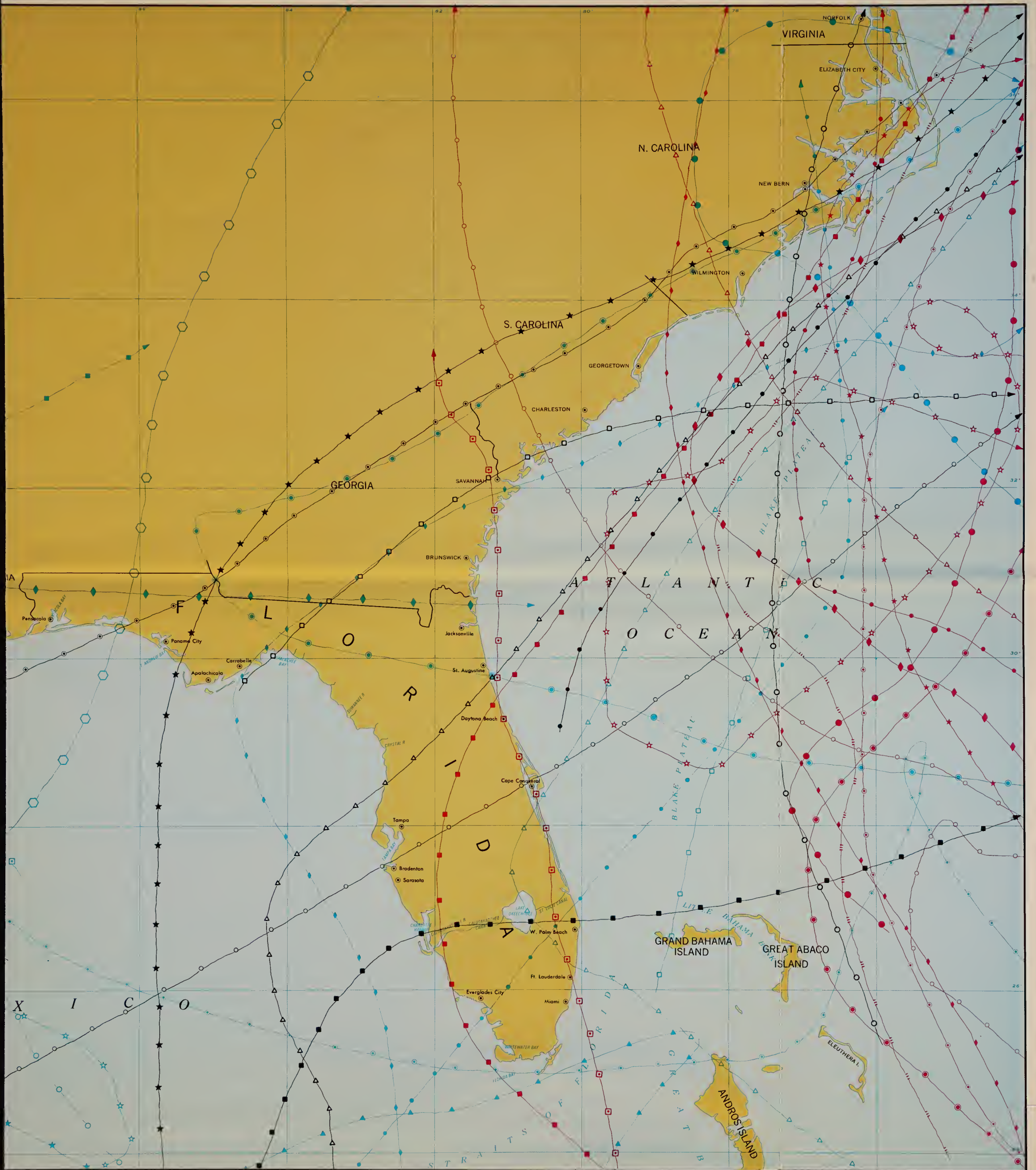
Sources: U.S. Department of Commerce  
National Oceanic and Atmospheric Administration  
National Weather Service  
National Hurricane Center  
Coral Gables, Florida

\* Indicates maximum windspeed for a portion of the tropical storm track during the history of the storm

Bureau of Land Management  
Library  
Denver Service Center







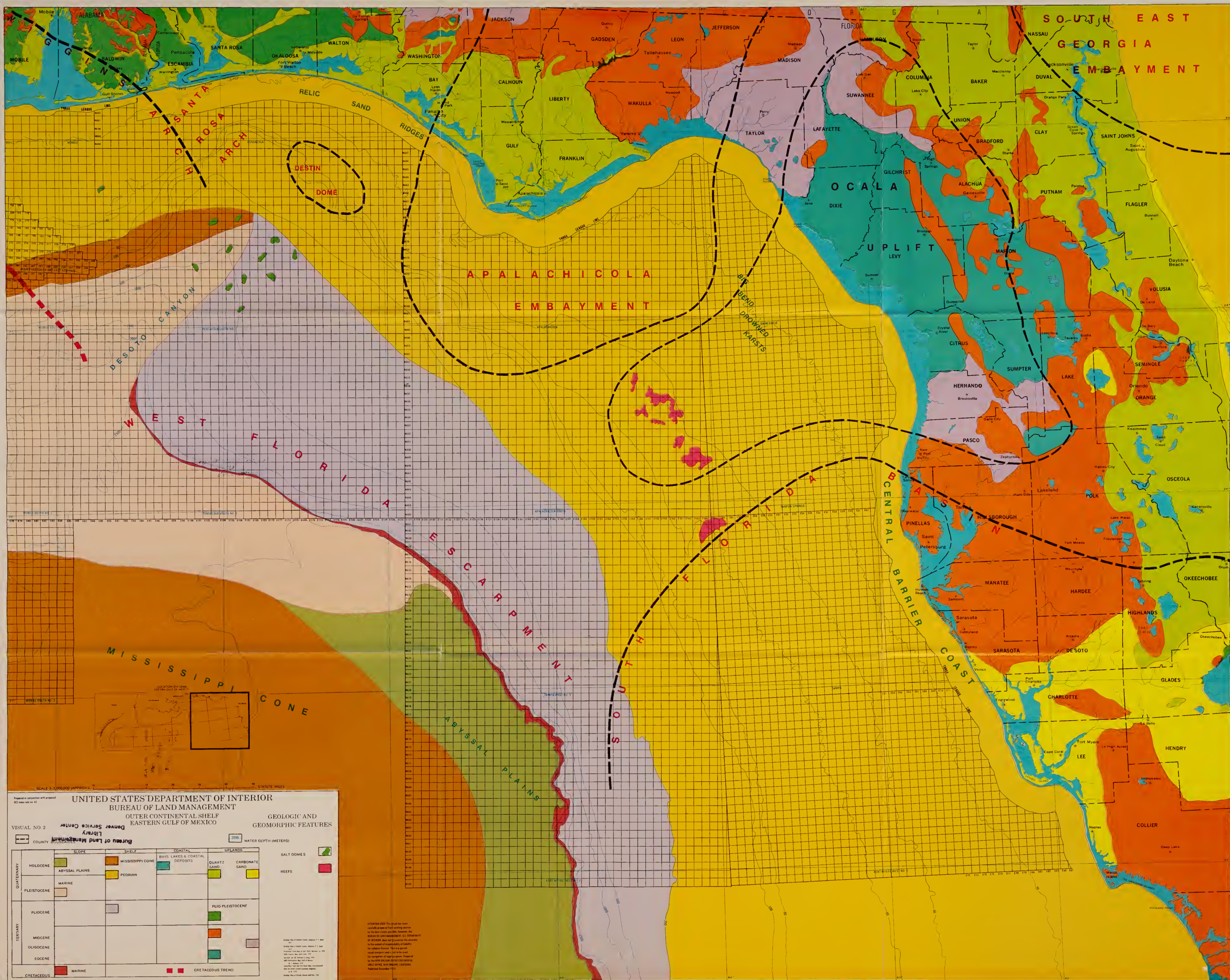




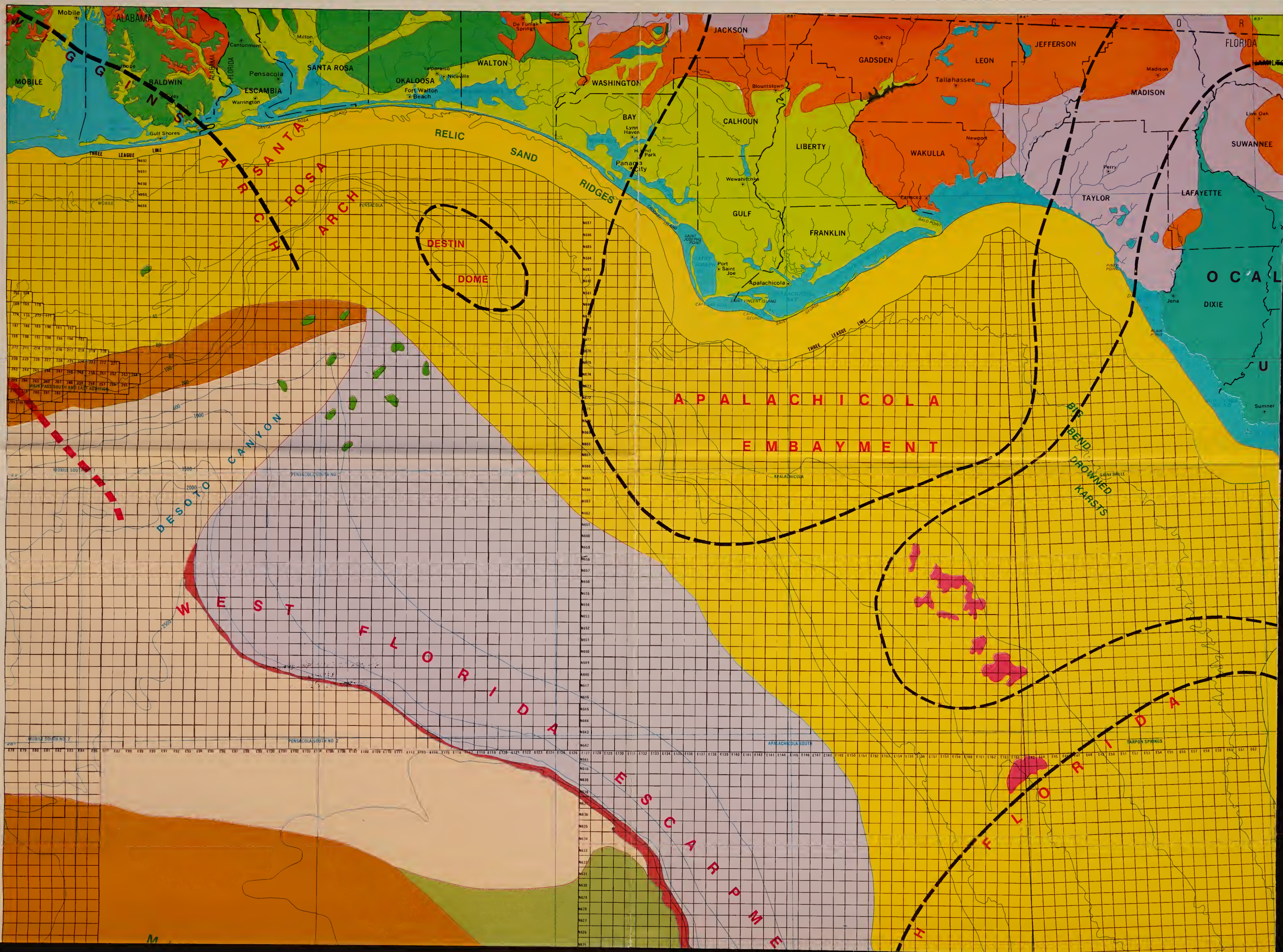




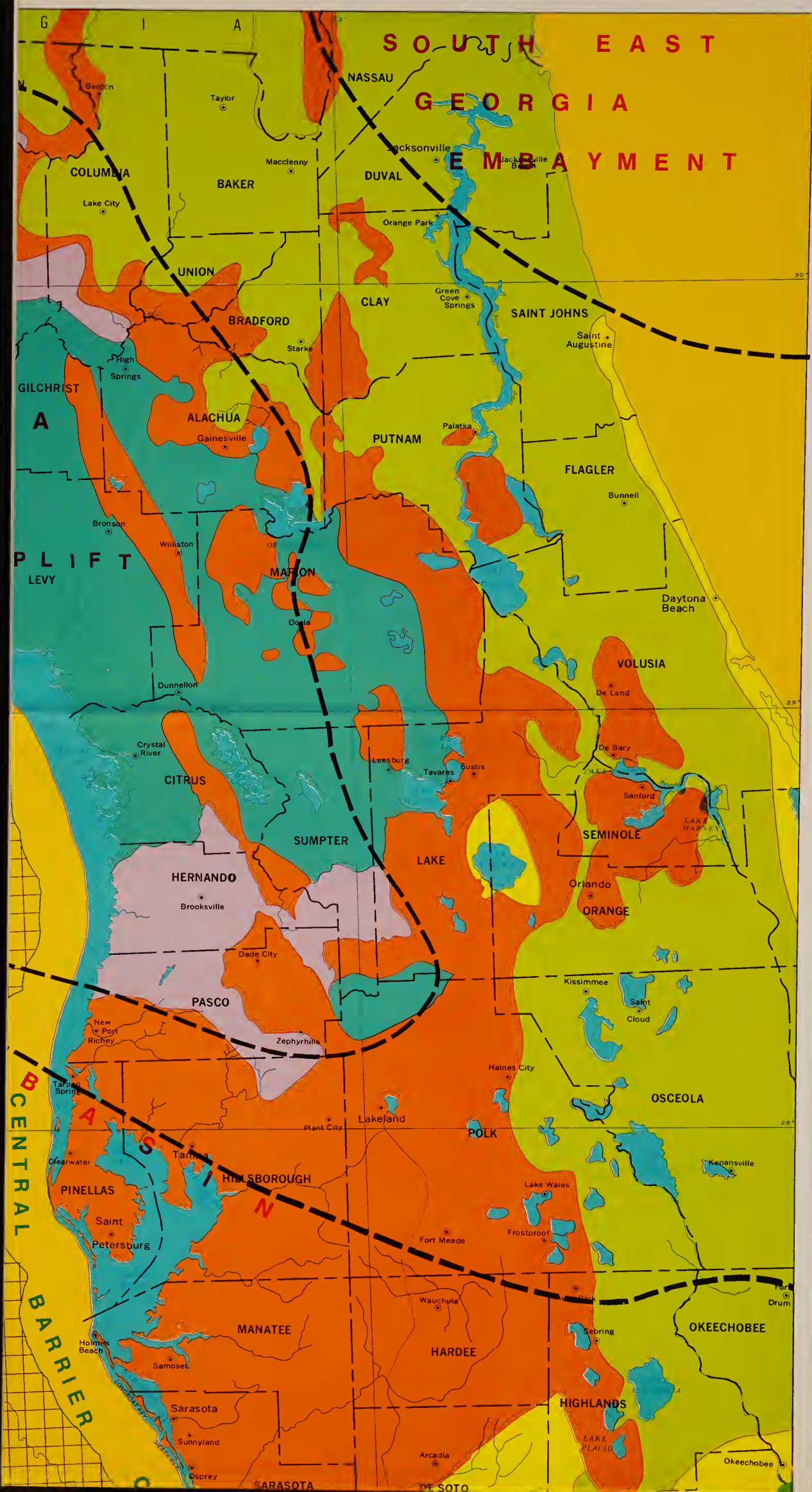
















UNITED STATES DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT  
OUTER CONTINENTAL SHELF  
EASTERN GULF OF MEXICO

VISUAL NO. 2

Prepared in conjunction with proposed  
OCS lease sale no. 41

Geologic and Geomorphic Features

Geologic Map of Mobile County, Alabama, P. C. Reed, 1971  
Geologic Map of Mobile County, Alabama, P. C. Reed, 1971  
Production Team Map of Gulf, 1975, Western, La 1974  
APG Technical Map Gulf Coast, 1972  
GSA Bull. Vol. 83, Whitten & Lewis, 1972  
APG Geologic Map, Gulf of Mexico, W. C. Hubbard, 1970  
Subsurface Fault and Salt Dome Map, Louisiana and Mississippi, Gulf of Mexico, 1973  
Geologic Map of Florida, Vernon and Fox, 1964

QUATERNARY	SLOPE		SHELF		COASTAL		UPLANDS	
	ABYSSAL PLAINS	MARINE	MISSISSIPPI CONE	PEORIAN	BAYS, LAKES & COASTAL DEPOSITS	QUARTZ SAND	CARBONATE SAND	
HOLOCENE								
PLEISTOCENE								
PLIOCENE								
MIOCENE								
OLIGOCENE								
Eocene								
CRETACEOUS								

WATER DEPTH (METERS)

2000

SALT DOMES

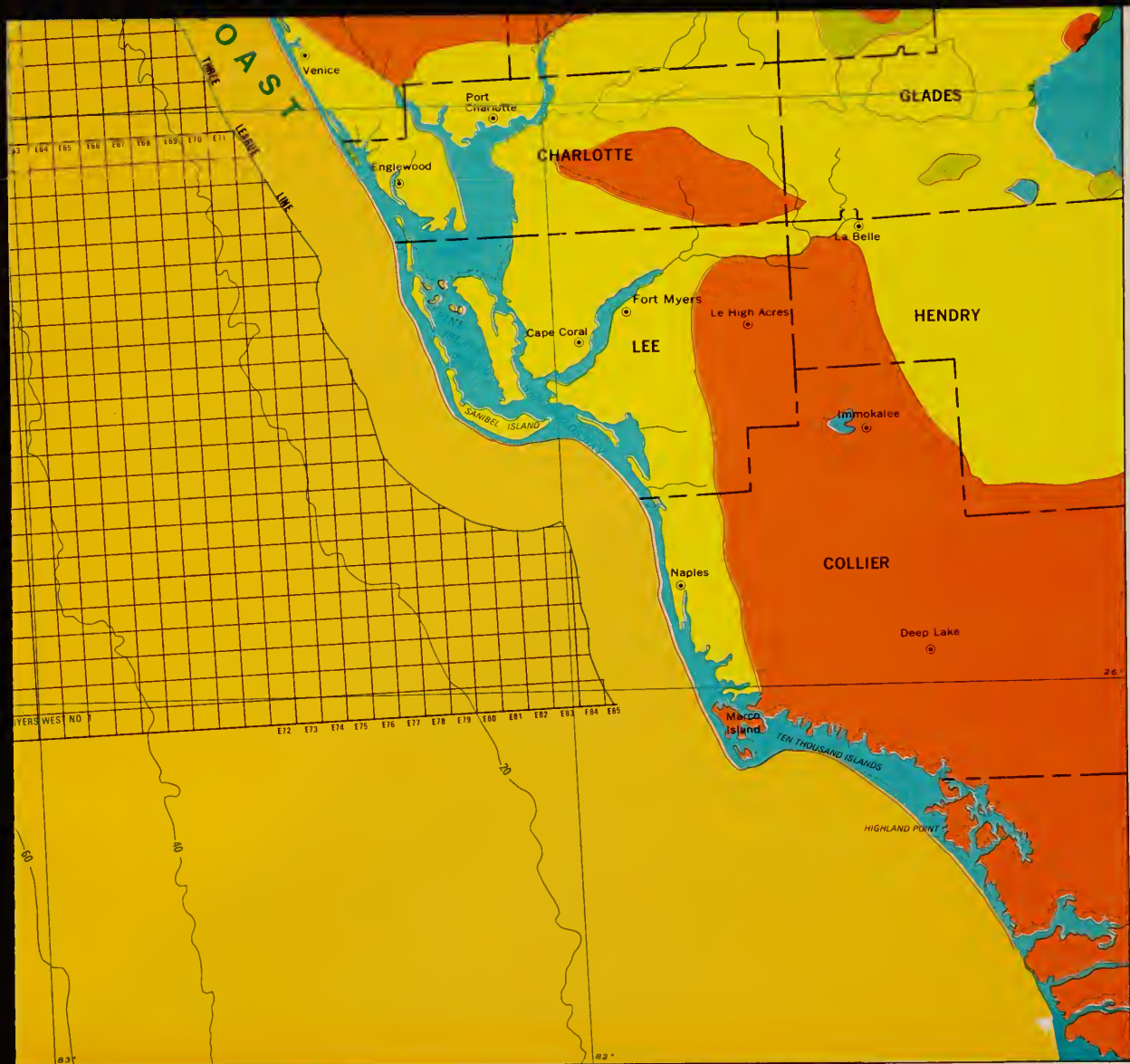
REEFS

CRETACEOUS TREND

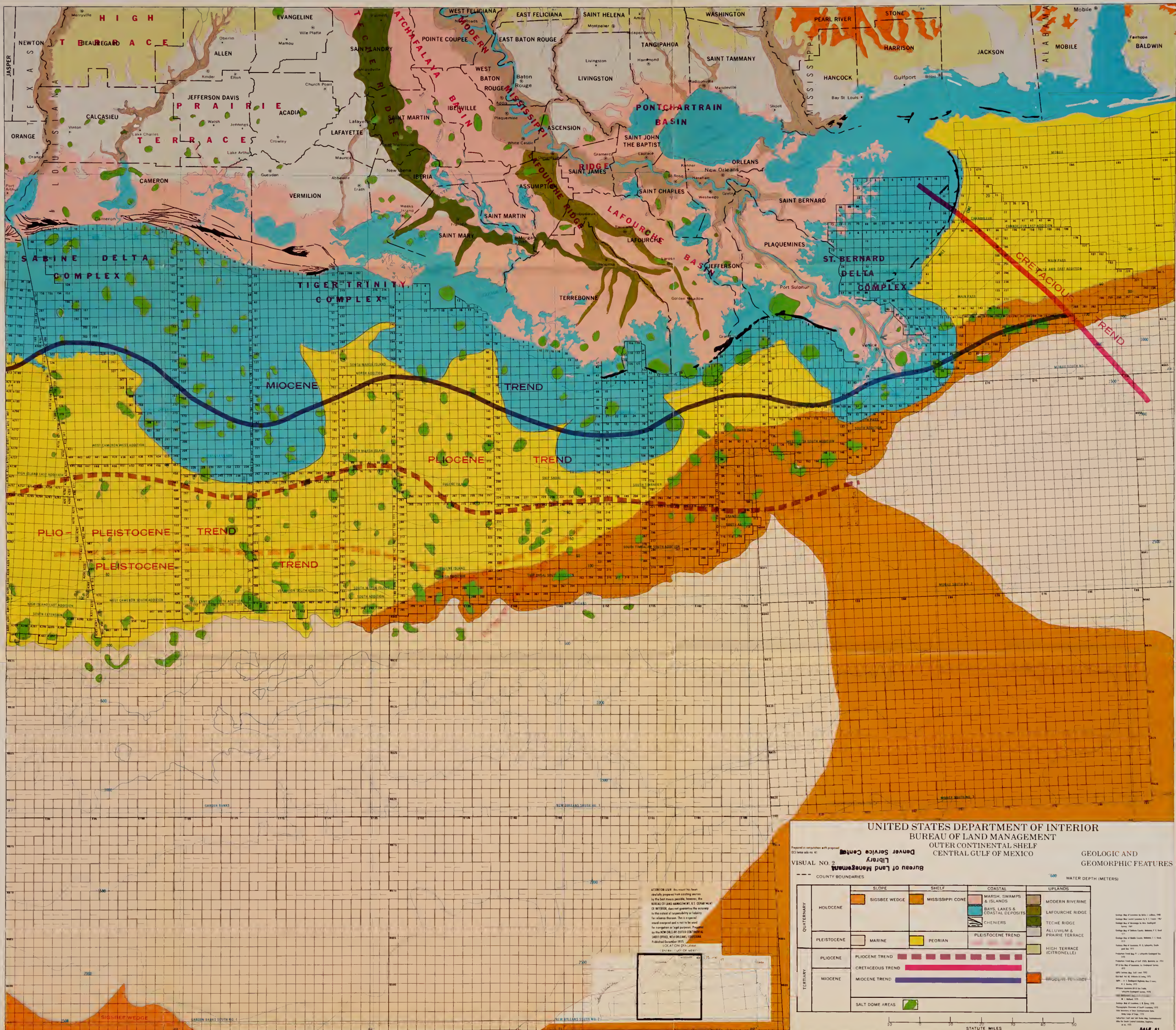


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UNITED STATES DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT  
OUTER CONTINENTAL SHELF  
CENTRAL GULF OF MEXICO

GEOLOGIC AND  
GEOMORPHIC FEATURES

Visual No. 2  
Bureau of Land Management  
Library  
Denver Service Center

Prepared in accordance with the instructions of the Bureau of Land Management, U.S. Department of the Interior, and the instructions of the Secretary of the Interior.

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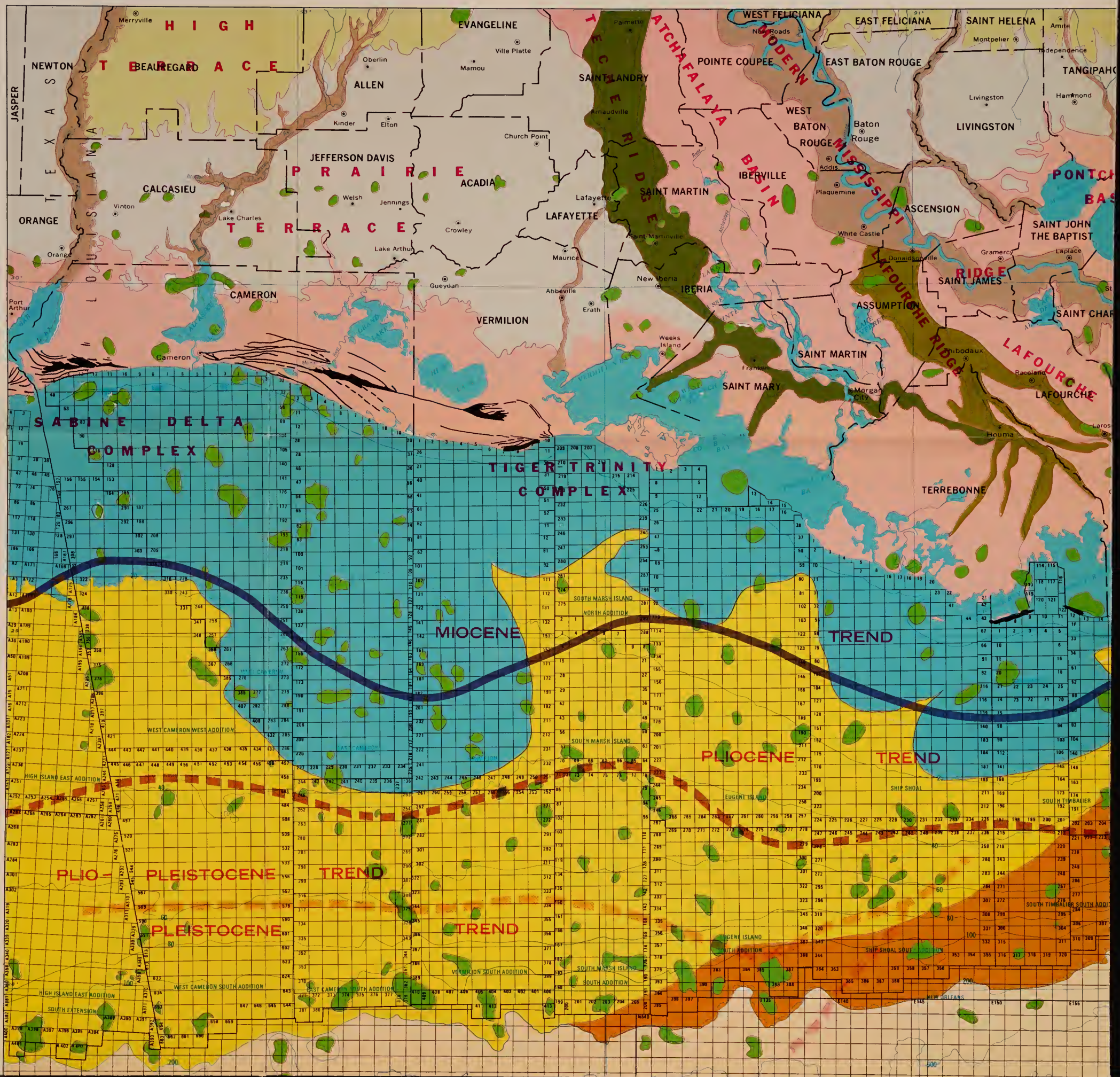
QUATERNARY	SLOPE		SHELF		COASTAL		UPLANDS	
	HOLOCENE	PLEISTOCENE	HOLOCENE	PLEISTOCENE	HOLOCENE	PLEISTOCENE	HOLOCENE	PLEISTOCENE
HOLOCENE	SIGSBEE WEDGE	MARINE	MISSISSIPPI CONE	PEORIAN	MARSH, SWAMPS & ISLANDS	CHENIERS	MODERN RIVERINE	TECHE RIDGE
PLEISTOCENE					BAYS, LAKES & COASTAL DEPOSITS		LAFORCUE RIDGE	ALLUVIUM & PRAIRIE TERRACE
PLIOCENE	PLIOCENE TREND				PLEISTOCENE TREND			
MIOCENE	CRETACEOUS TREND							
	MIOCENE TREND							
	SALT DOME AREAS							

WATER DEPTH (METERS)

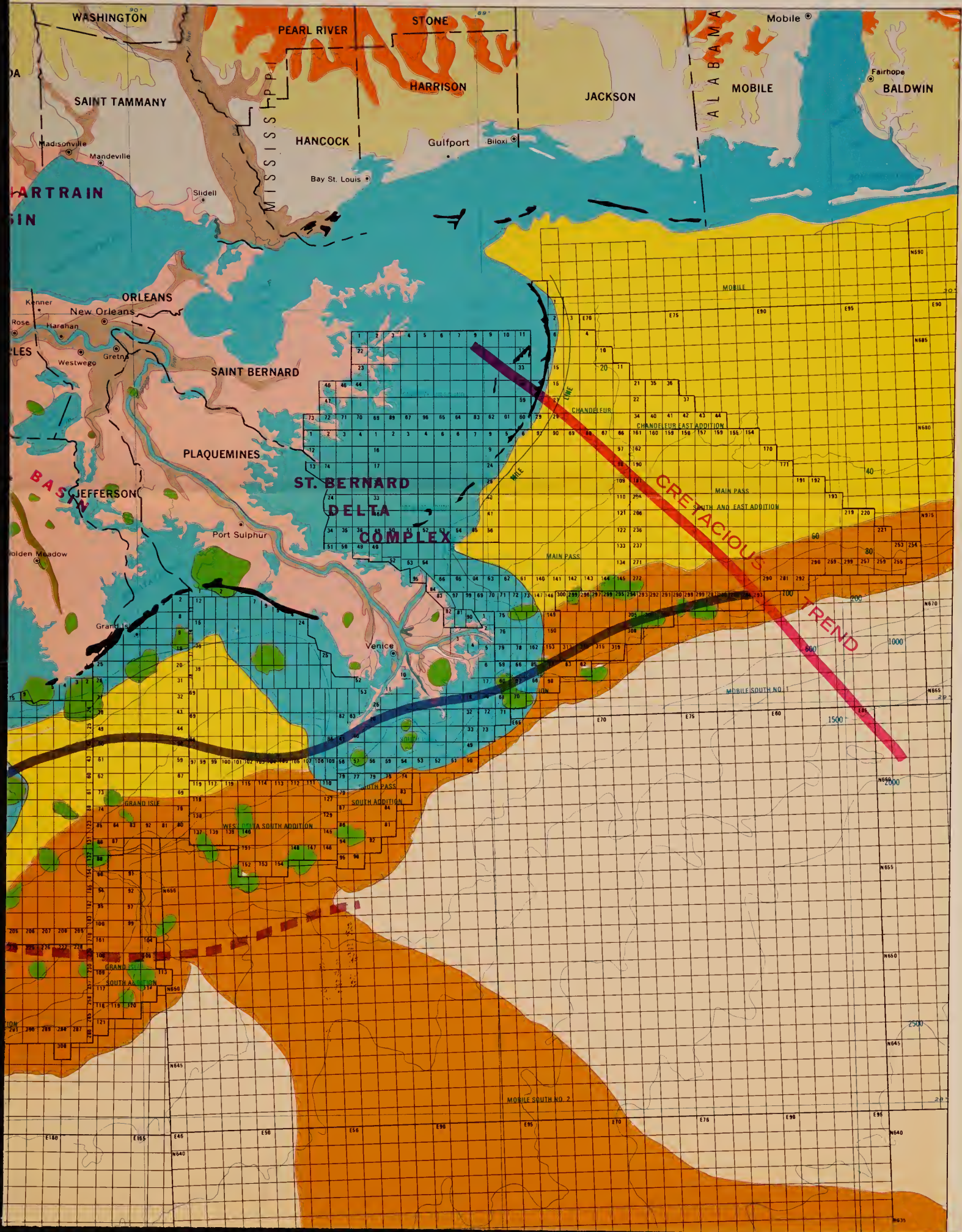
STATUTE MILES

SALE 41

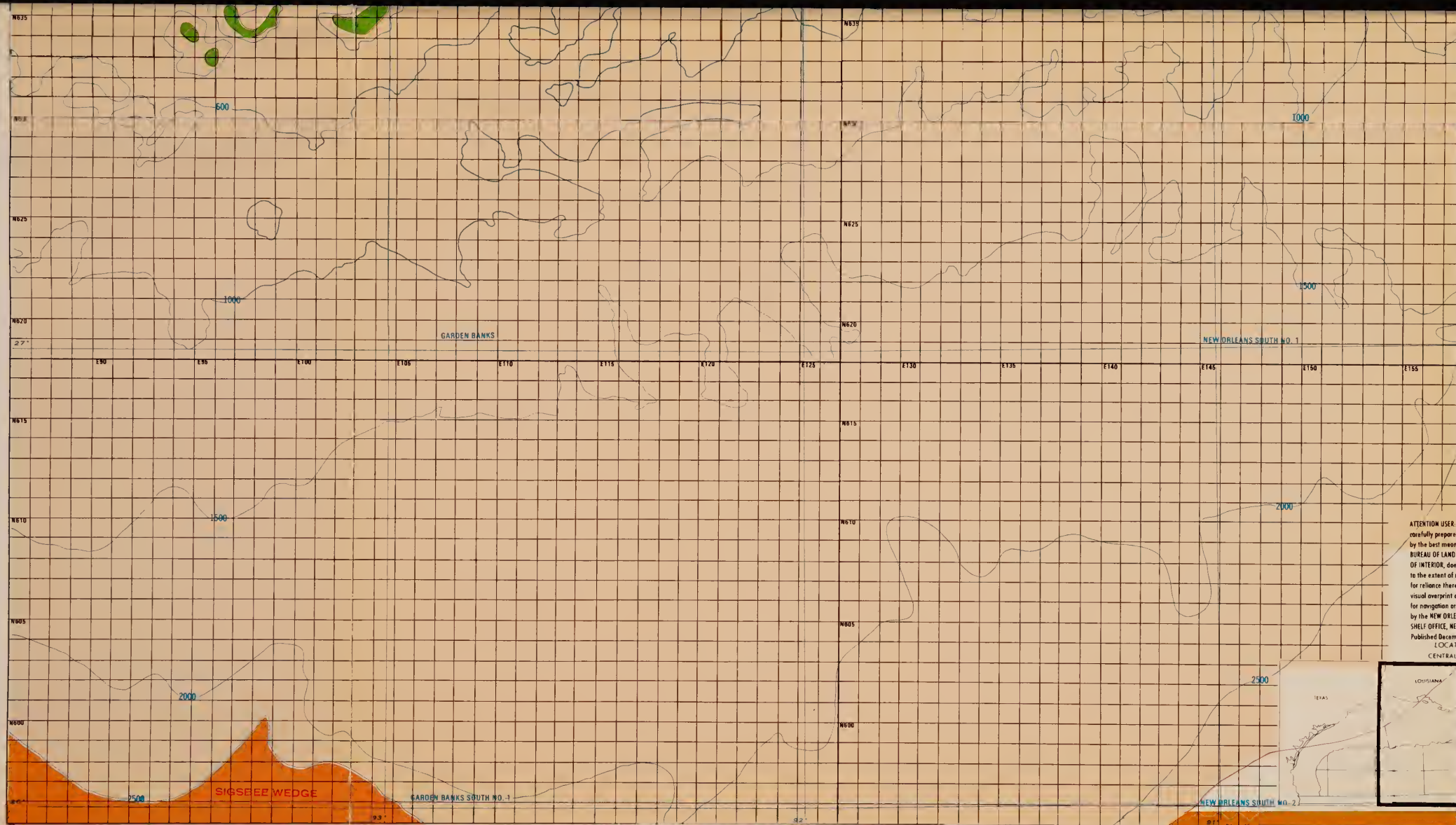








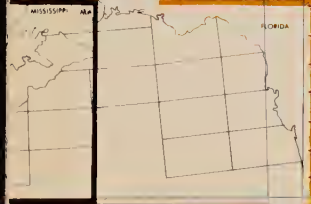




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of the  
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OF INTERIOR, does  
to the extent of  
for reliance there  
visual overprint  
for navigation or  
by the NEW ORLEANS  
SHELL OFFICE, NEW  
Published Decem  
LOCAT  
CENTRAL



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# 245700 0. 3207 0002

UNITED STATES DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT  
OUTER CONTINENTAL SHELF  
CENTRAL GULF OF MEXICO

Prepared in conjunction with proposed OCS lease sale no. 41  
VISUAL NO. 2  
Bureau of Land Management  
Library  
Denver Service Center

GEOLOGIC AND GEOMORPHIC FEATURES

--- COUNTY BOUNDARIES

1500 WATER DEPTH (METERS)

		SLOPE	SHELF	COASTAL	UPLANDS
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	PLEISTOCENE	MARINE	PEORIAN	PLEISTOCENE TRENO	HIGH TERRACE (CITRONELLE)
TERTIARY	PLIOCENE	PLIOCENE TRENO			
		CRETACEOUS TRENO			
	MIOCENE	MIOCENE TRENO			MIOCENE TERRACE
		SALT DOME AREAS			



Geologic Map of Louisiana by Rufus J. Lillibridge, 1940  
Geologic Map Central Louisiana by R. J. Tremp, 1967  
Geologic Map of Mississippi by W. M. Galloway, 1967  
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GSA Bull. Vol. 62, Bulletin 6, 1972  
APG - U. S. Geological Highway Map (Texas), H. B. Renshaw, 1972  
Offshore Louisiana Off & On Field, Lafayette Geological Survey, 1970  
APG Bartholomew Map, Gulf of Mexico, W. C. Holland, 1970  
Geologic Map of Louisiana, J. B. Renshaw, 1970  
Physiographic Overview of South Louisiana, 1972  
Atlas Inventory of Basin Environmental Data, Army Corps of Eng., 1972  
Seismicity Fault and Salt Domes Map, Environmental Affairs for South Central Louisiana, September, et al., 1973







#4785702

ID: 98076093

TIDAL PL 6455 1976 v.3

UNITED STATES DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT  
OUTER CONTINENTAL SHELF  
WESTERN GULF OF MEXICO

GEOLOGIC AND GEOMORPHIC FEATURES



COUNTY BOUNDARIES

2500

WATER DEPTH (METERS)

QUATERNARY	SLOPE		SHELF	COASTAL		UPLANDS	
	HOLOCENE	SIGSBEE WEDGE		BEACH SAND	BAYS, LAKES &	CHENIERS	
PLEISTOCENE			PEORIAN		COASTAL DEPOSITS	RIVERINE	
		MARINE					
TERTIARY		PLIO-PLEISTOCENE TREND				PLIO-PLEISTOCENE	
	PLIOCENE	PLIOCENE TREND					
	MIOCENE	MIOCENE TREND					
	OLIGOCENE	OLIGOCENE TREND					
REPORTED CORAL			SALT DOME AREAS		SHALE DIAPIR AREAS		

VISUAL NO. 2

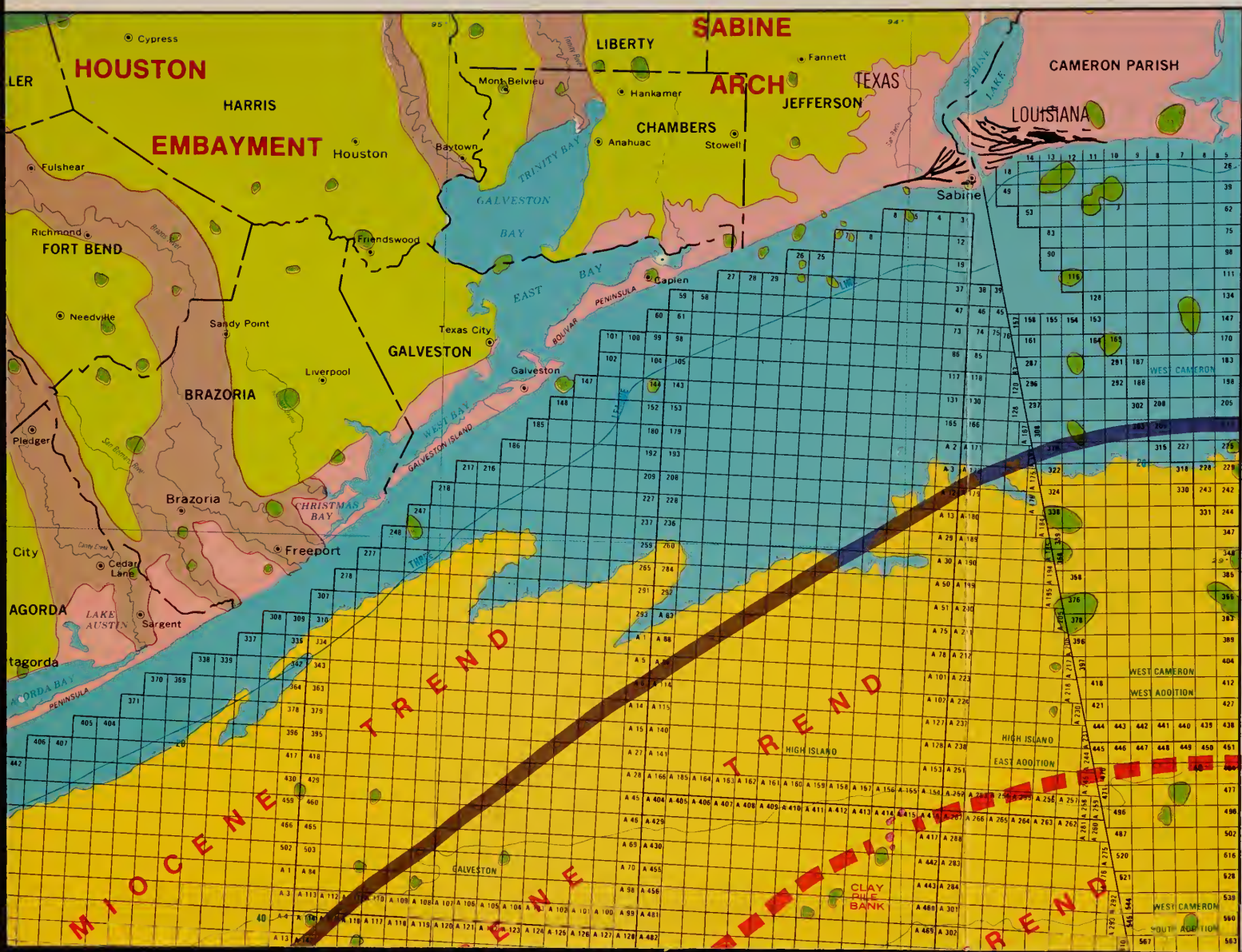
Denver Service Center  
LibraryPrepared in conjunction with proposed  
OCS lease sale no. 41

SCALE 1:1,000,000 (APPROX.)

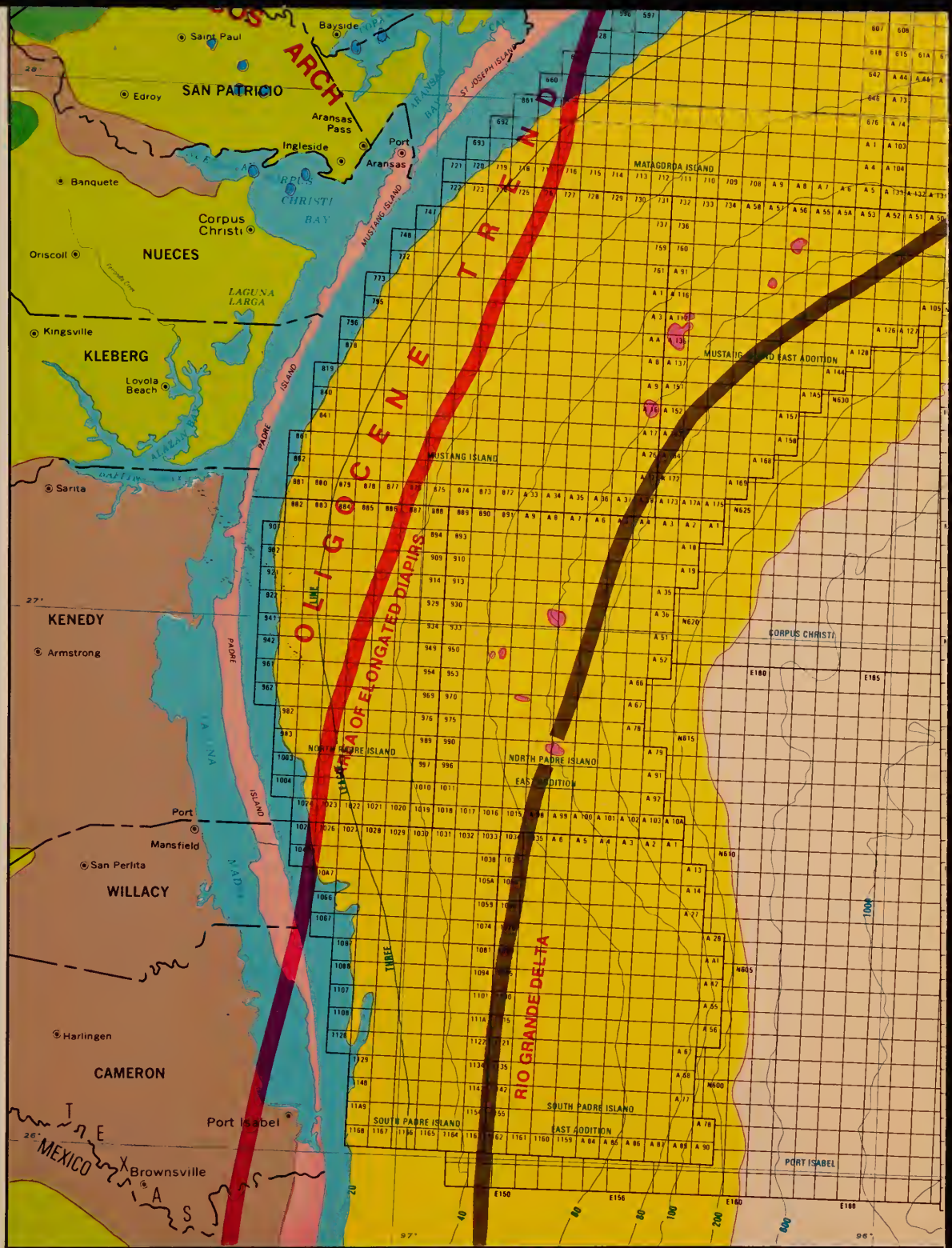
Bureau of Land Management



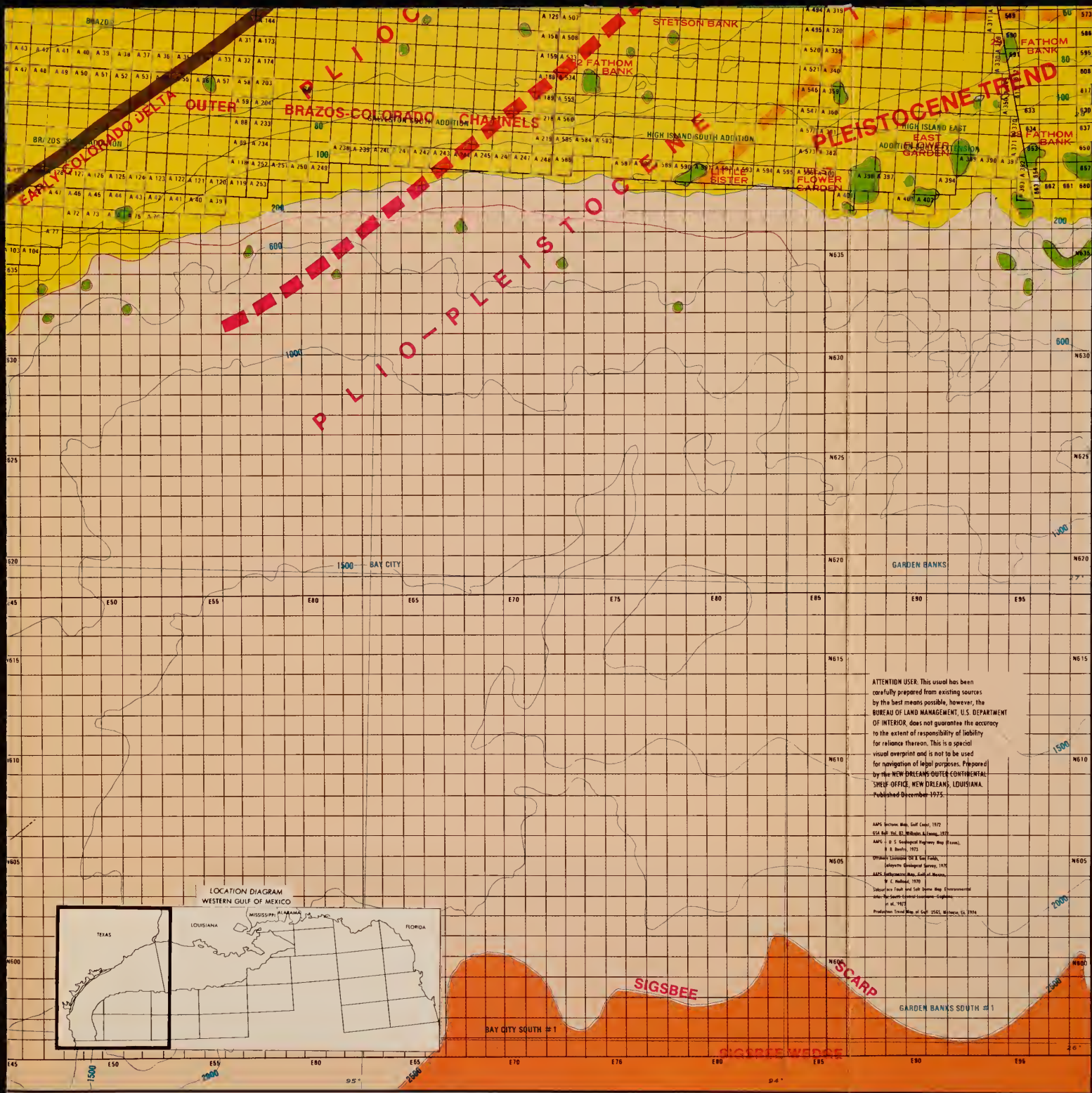












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Published December 1975

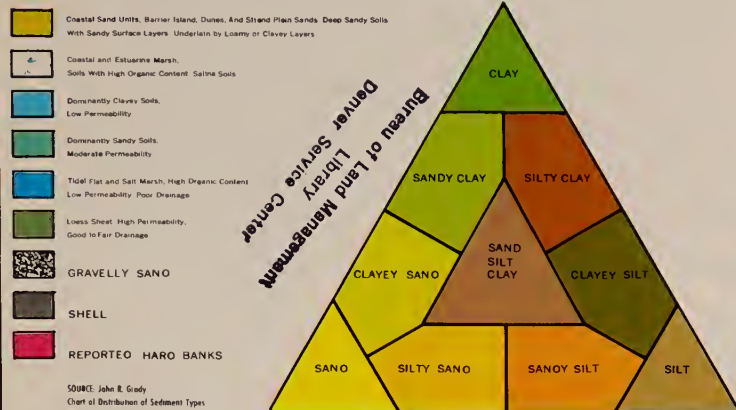
AAPG *Section Map, Gulf Coast, 1972*  
 GSA *Bull. Vol. 87, Memphis & Environs, 1977*  
 AAPG - U.S. Geological *Highway Map (Texas)*,  
 W.C. Baugh, 1973  
 Oklahoma *University Oil & Gas Fields*,  
*Geological Survey, 1976*  
 AAPG *Highway Map, Gulf of Mexico*,  
 W.C. Baugh, 1970  
*Subsurface Facilities and Salt Domes Map Environmental*  
*Inter. The South-Central-Lebanese-Geological*  
*Pr. of, 1975*  
 Production *Tram Map of Gulf (USGS)*, Whitehouse, TX 1991



UNITED STATES DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT  
OUTER CONTINENTAL SHELF  
WESTERN GULF OF MEXICO  
UPLAND SOILS  
BOTTOM SEDIMENTS

COUNTY BOUNDARIES

2500 WATER DEPTH (METERS)

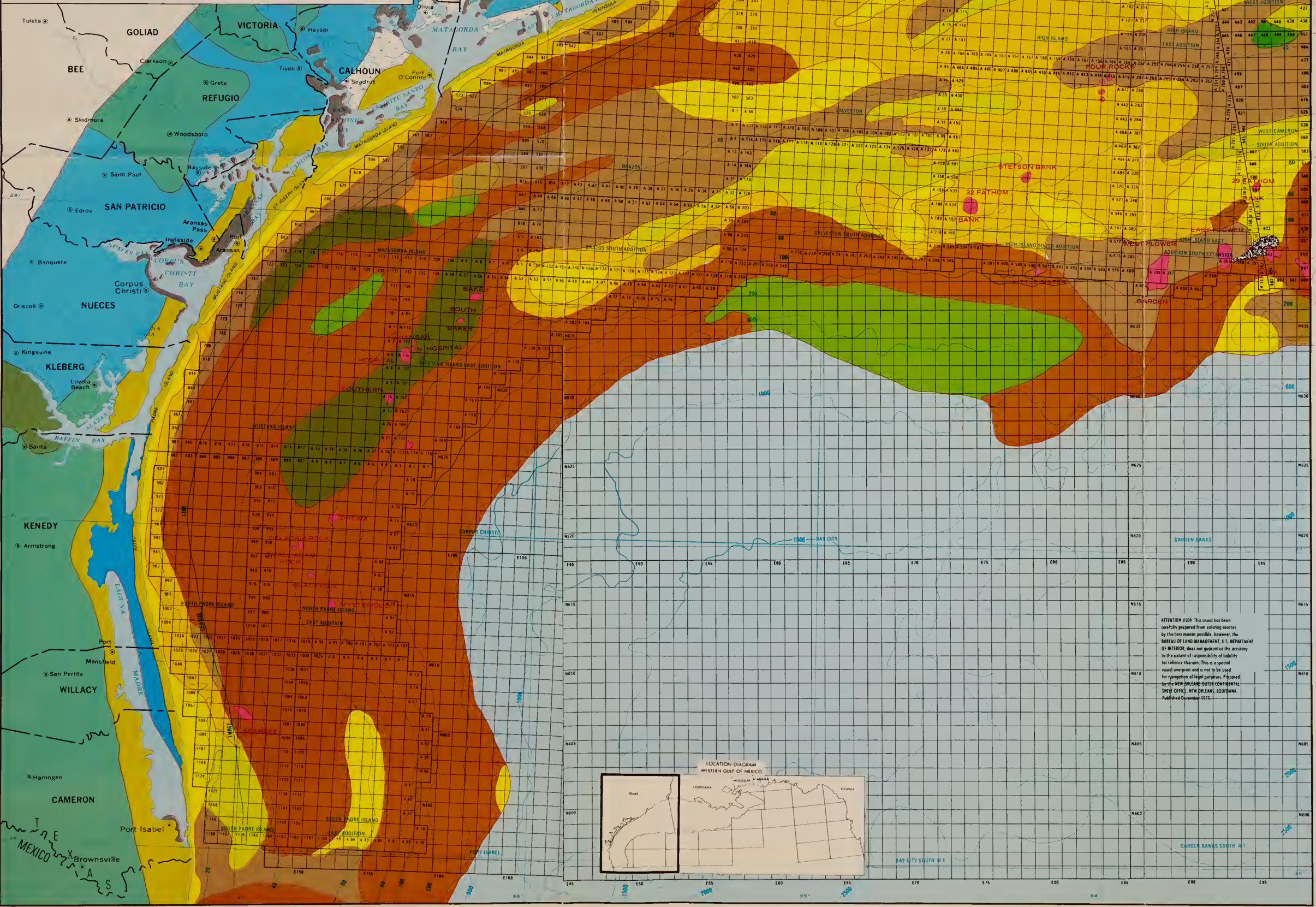


SOURCE: John R. Grady  
Chart of Distribution of Sediment Types  
Northern Gulf of Mexico-1970  
NOAA National Marine Fisheries Service  
Gulf Coastal Fisheries Center

Prepared in conjunction with proposed  
OCS lease sale no. 41

SCALE 1:1,000,000 (APPROX)

STATUTE MILES



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SHELF OFFICE, NEW ORLEANS, LOUISIANA.  
Published December 1975.



#4785702 ID: 83076093 TMS.74 0355 1976 v.3

# UNITED STATES DEPARTMENT OF INTERIOR

## BUREAU OF LAND MANAGEMENT

### OUTER CONTINENTAL SHELF

### WESTERN GULF OF MEXICO

### UPLAND SOILS

### BOTTOM SEDIMENTS



COUNTY BOUNDARIES



2500 WATER DEPTH (METERS)



Coastal Sand Units, Barrier Island, Dunes, And Strand Plain Sands, Deep Sandy Soils With Sandy Surface Layers, Underlain by Loamy or Clayey Layers



Coastal and Estuarine Marsh, Soils With High Organic Content, Saline Soils



Dominantly Clayey Soils, Low Permeability



Dominantly Sandy Soils, Moderate Permeability



Tidal Flat and Salt Marsh, High Organic Content, Low Permeability Poor Drainage



Loess Sheet, High Permeability, Good to Fair Drainage



GRAVELLY SAND



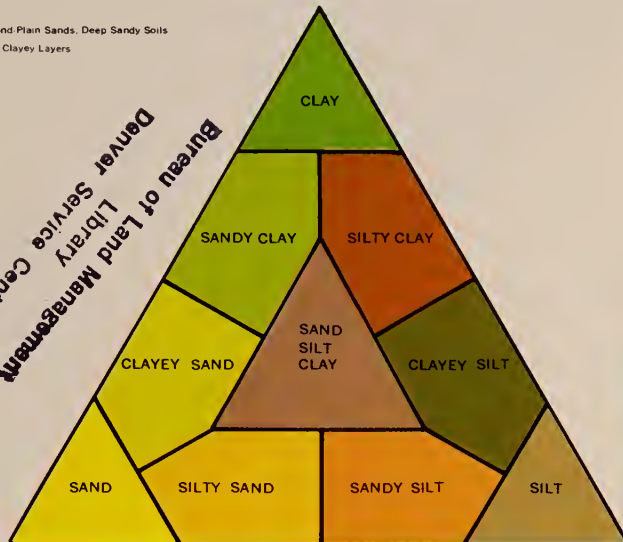
SHELL



REPORTED HARD BANKS

SOURCE: John R. Grady  
Chart of Distribution of Sediment Types  
Northern Gulf of Mexico-1970  
NOAA National Marine Fisheries Service  
Gulf Coastal Fisheries Center

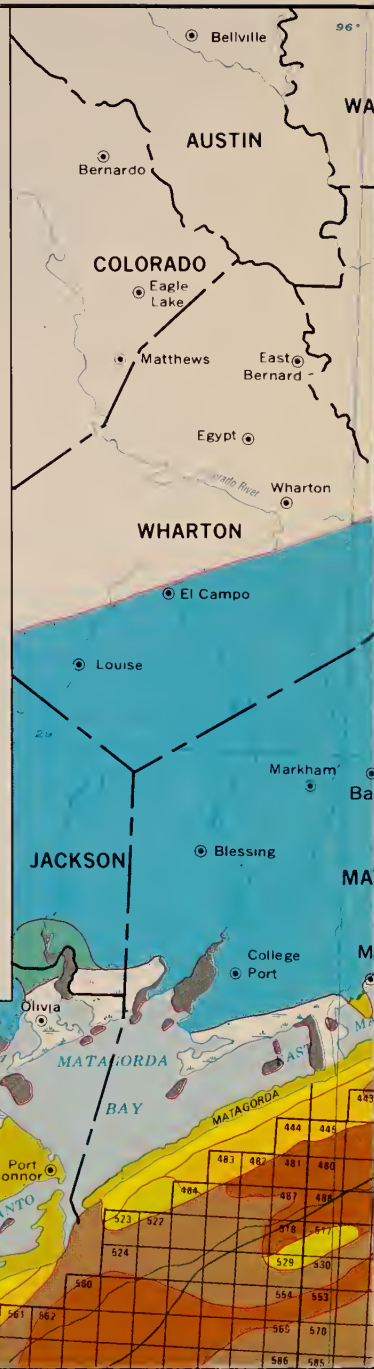
Bureau of Land Management  
Library  
Denver Service Center



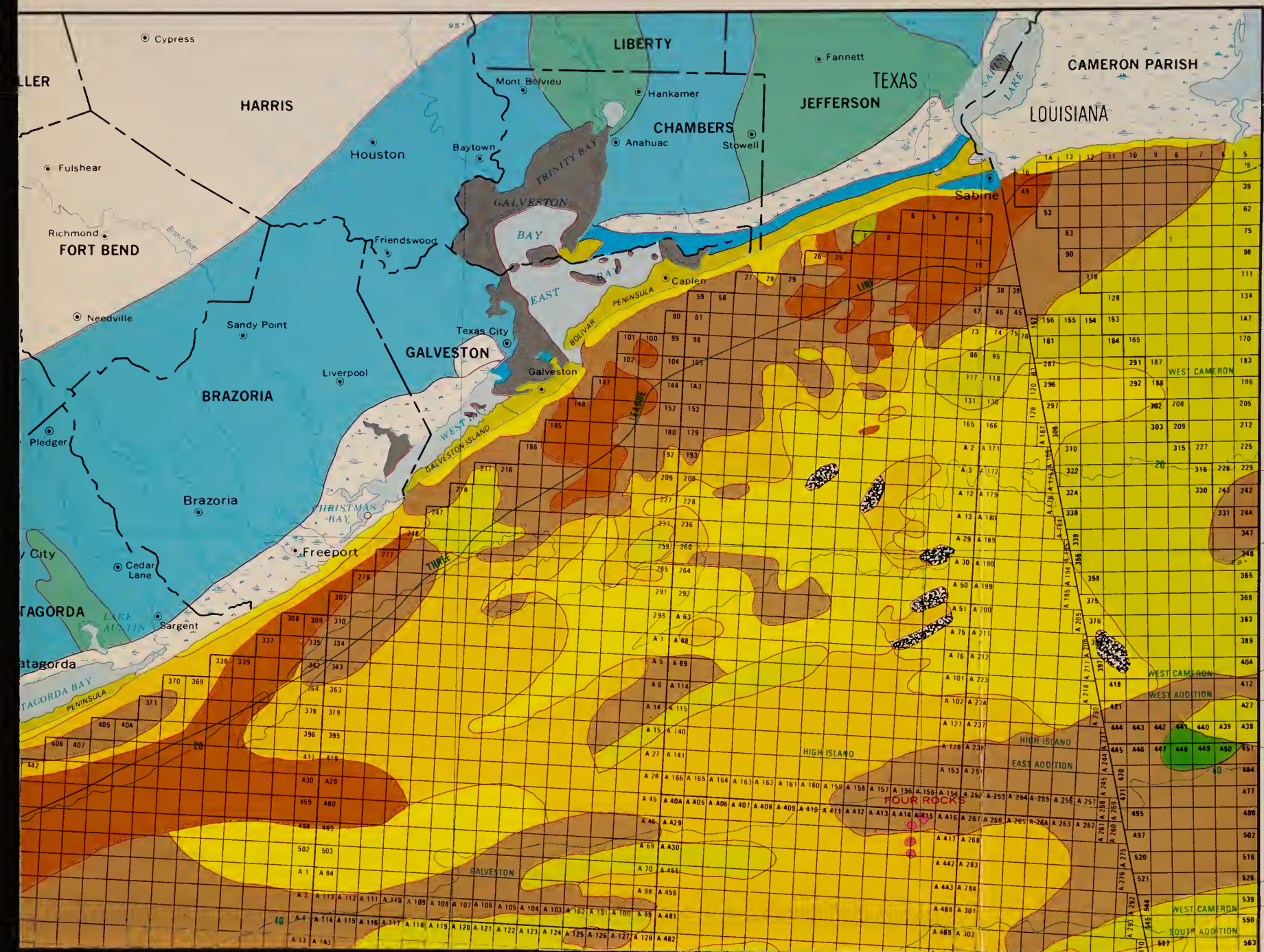
VISUAL NO. 3

SCALE 1:1,000,000 (APPROX)

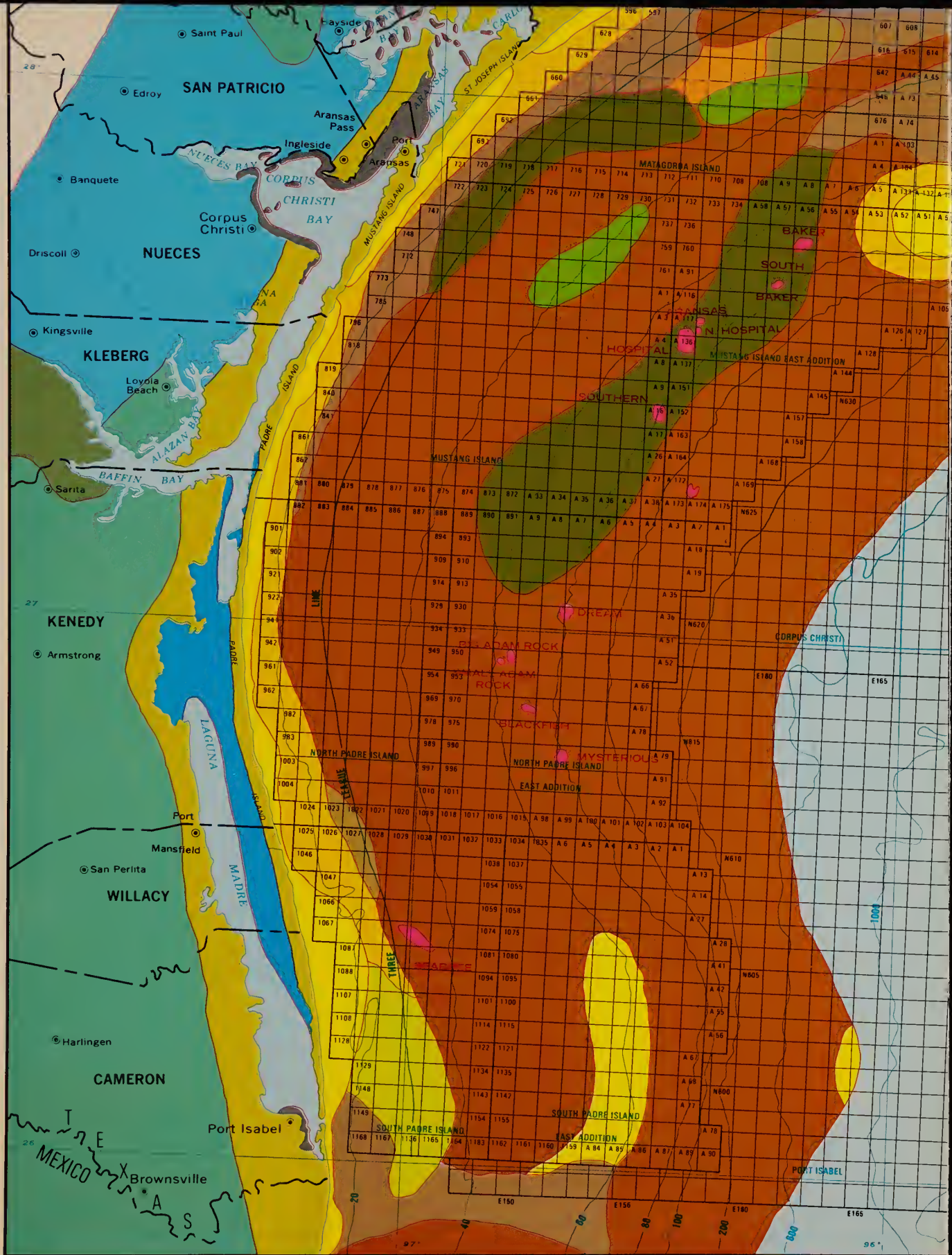
Prepared in conjunction with proposed  
OCS lease sale no. 41



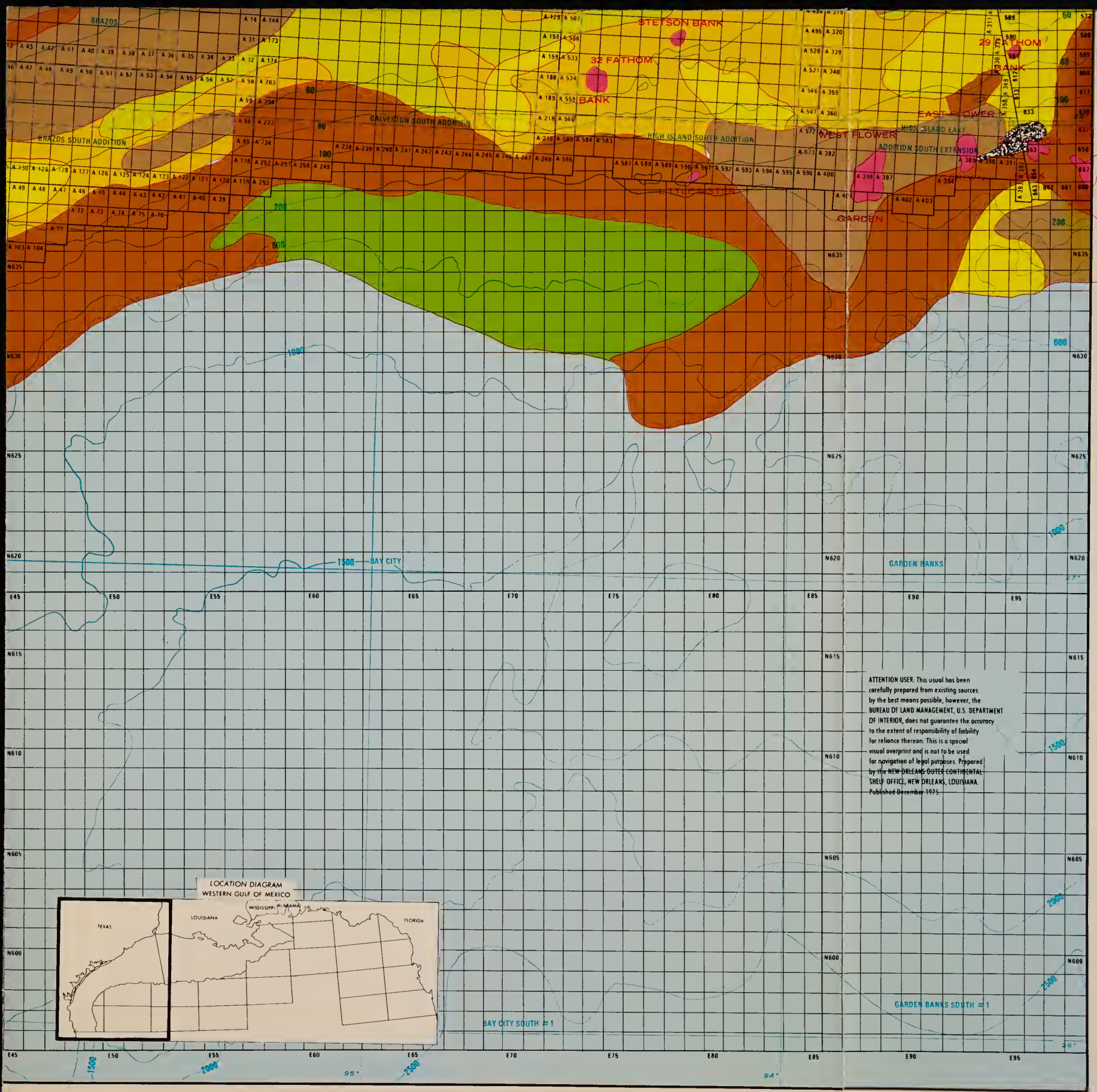




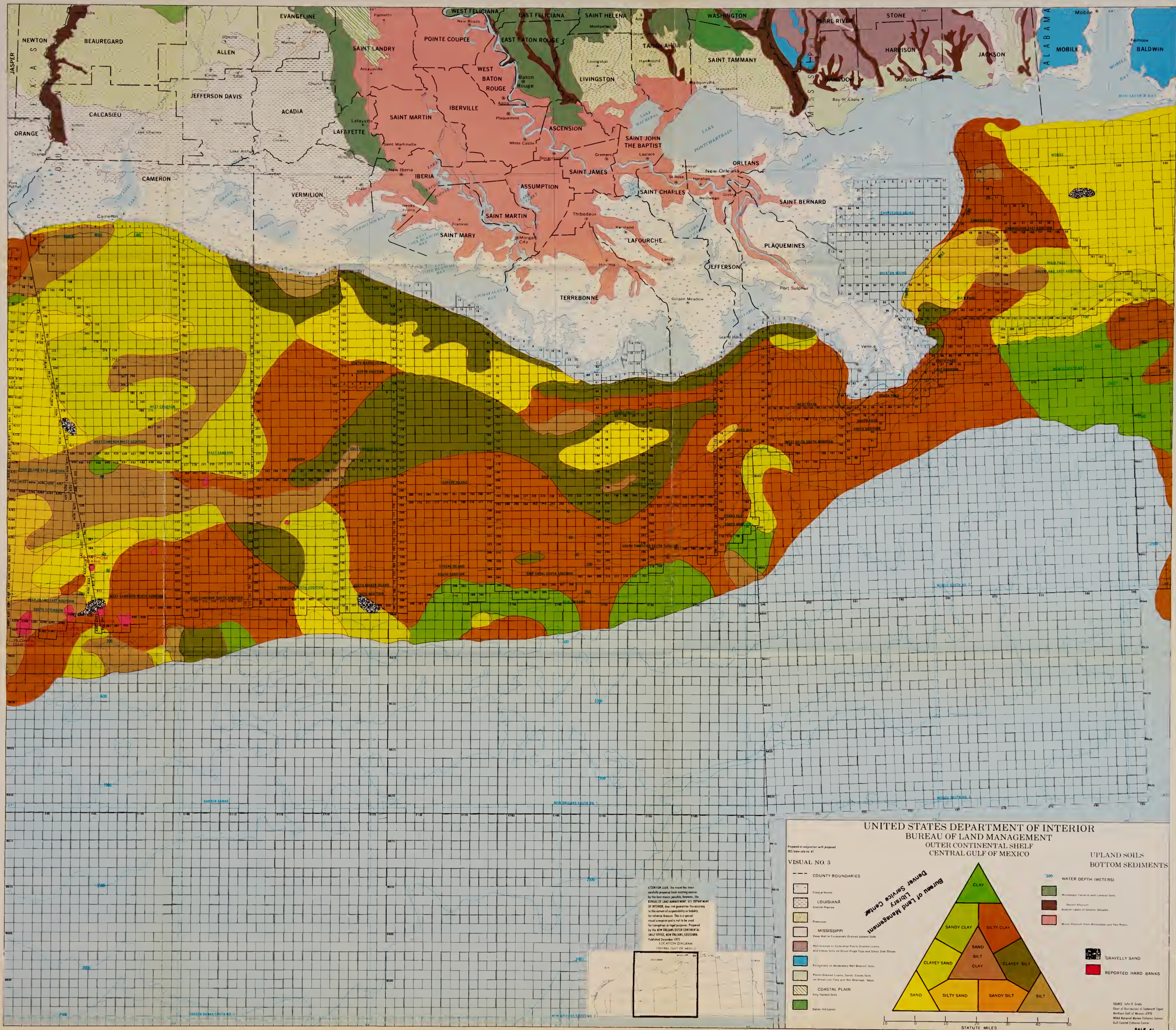




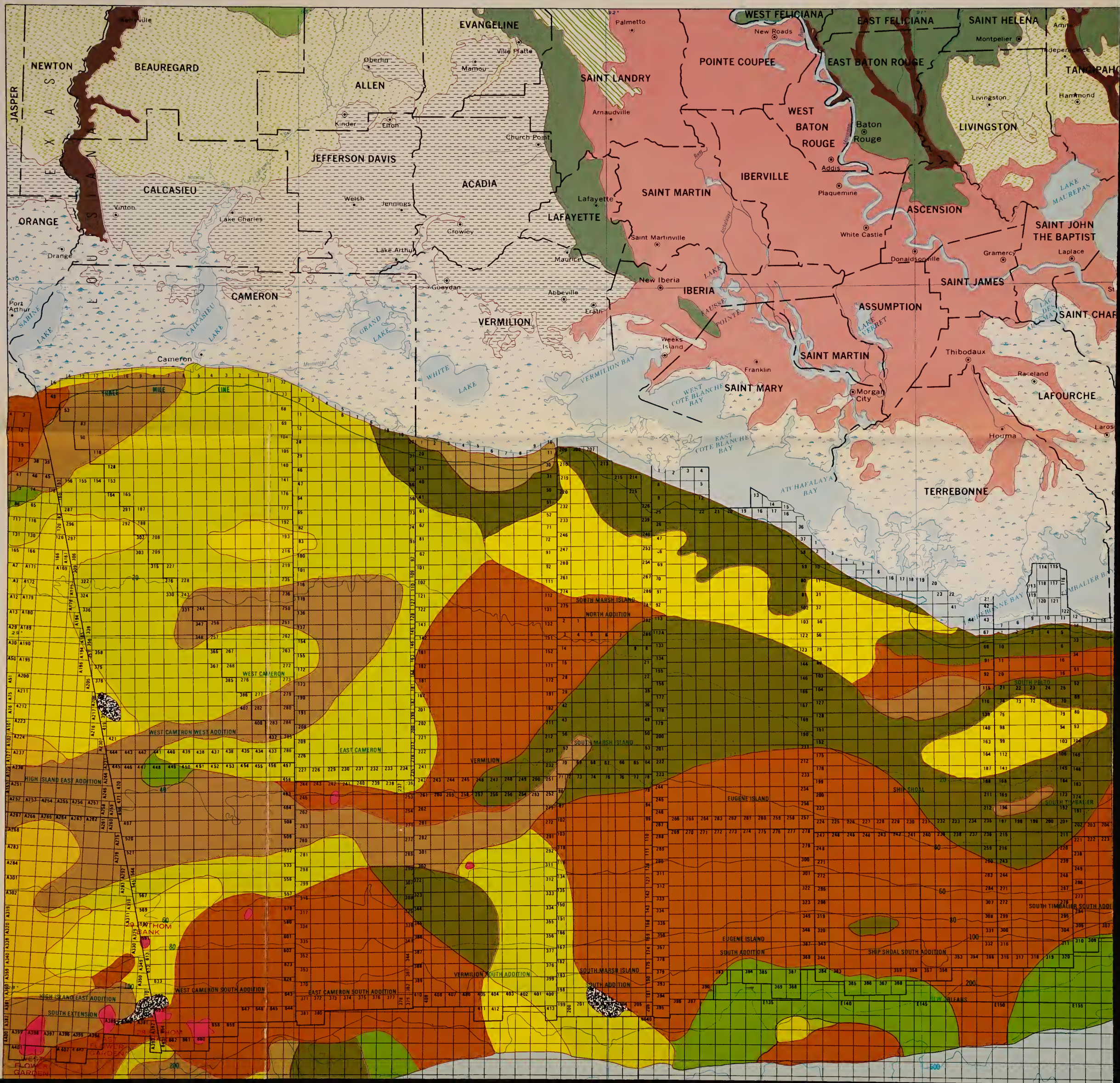




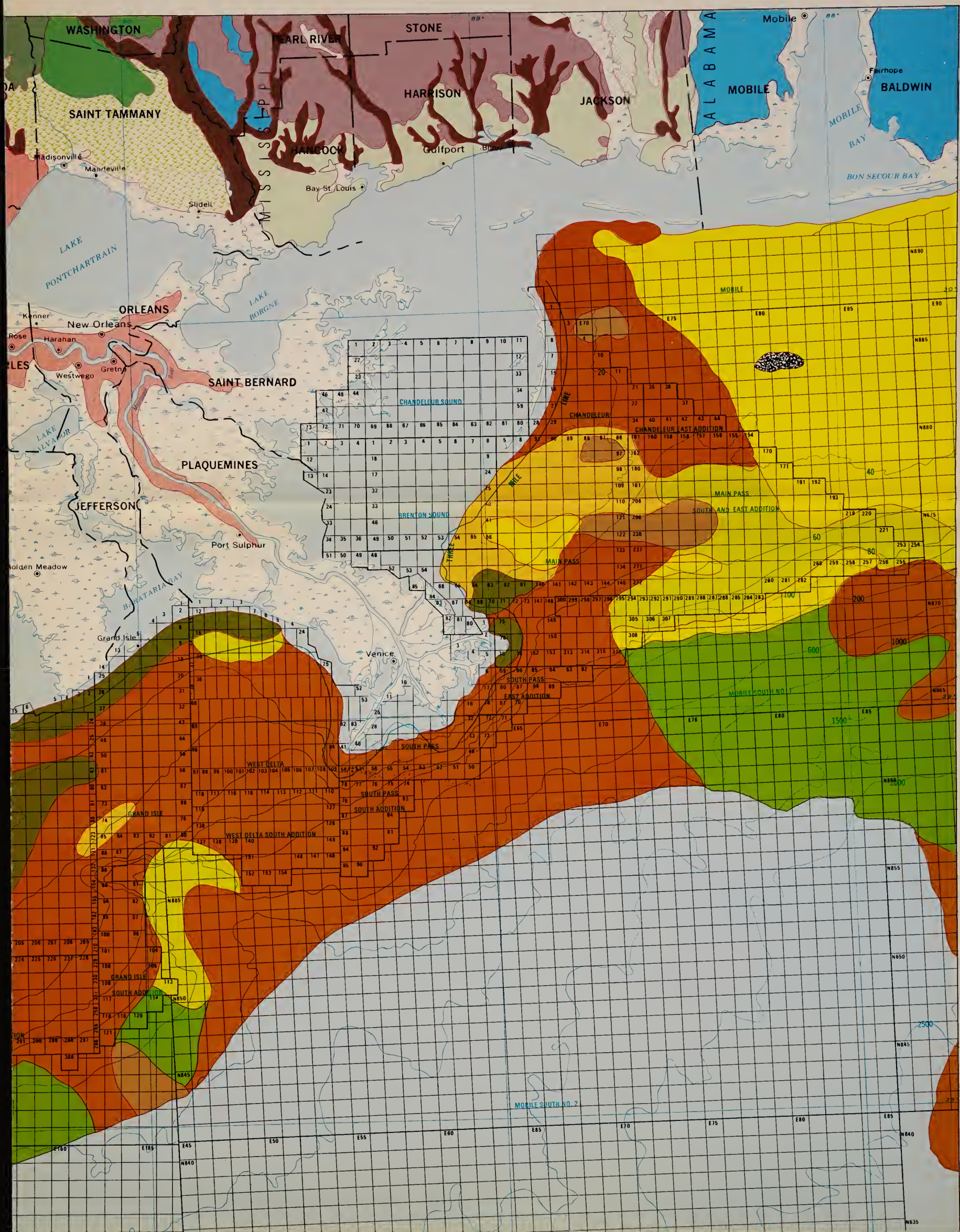




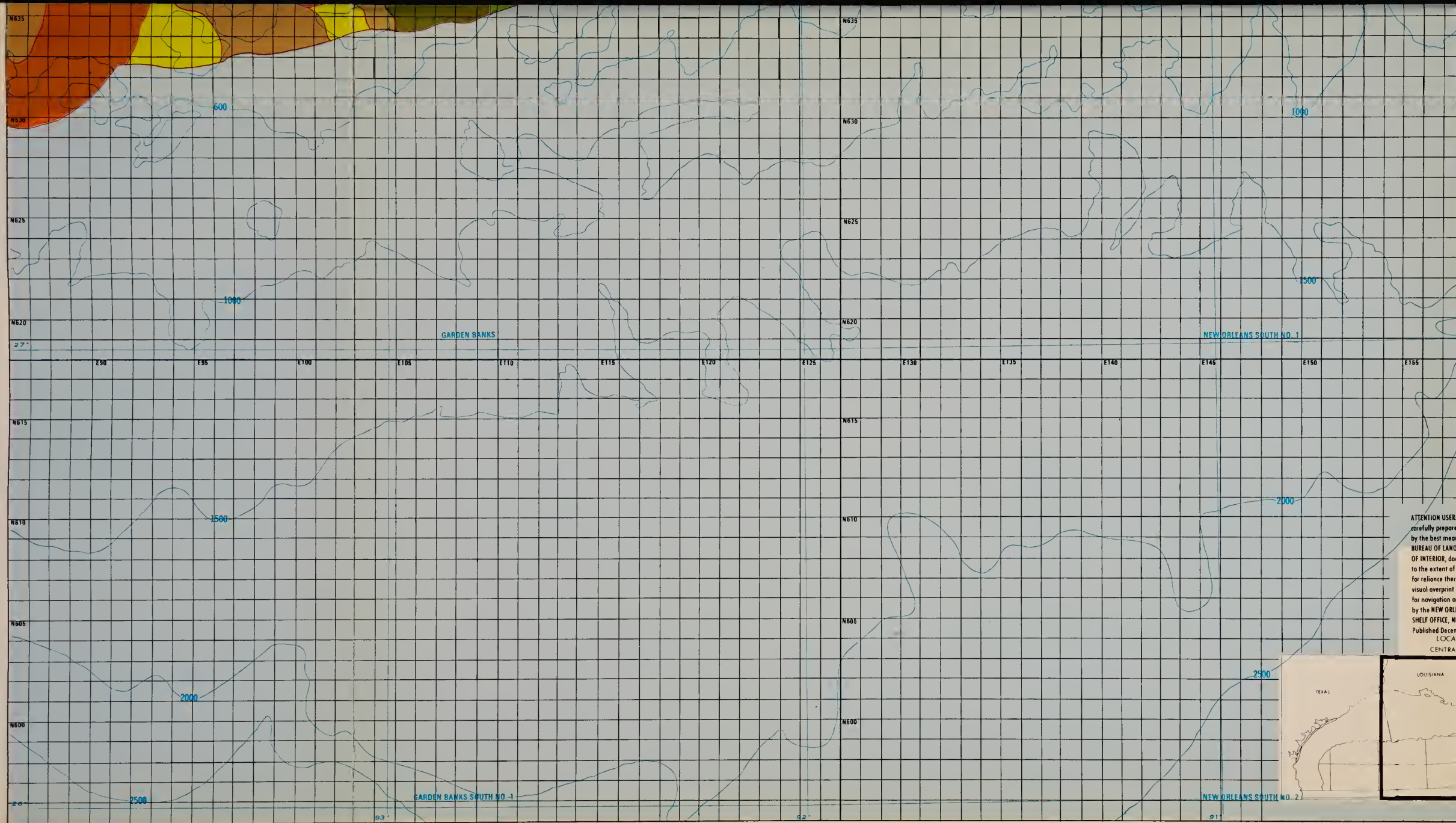












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SHELF OFFICE, NEW  
Published December  
LOCATED  
CENTRAL









UNITED STATES DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT  
OUTER CONTINENTAL SHELF  
EASTERN GULF OF MEXICO

UPLAND SOILS  
BOTTOM SEDIMENTS

VISUAL NO. 3

COUNTY BOUNDARIES

AREAS DOMINATED BY EXCESSIVELY TO MODERATELY WELL DRAINED SOILS

AREAS DOMINATED BY SOMEWHAT POORLY DRAINED SOILS

FRESH WATER SWAMP MARSH TIDAL MARSH  
COASTAL BEACH AND DUNES

AREAS DOMINATED BY POORLY TO VERY POORLY DRAINED SOILS

WATER DEPTH (METERS)

CLAY

SANDY CLAY

SILT CLAY

SAND

SANDY SILT

SILT

CLAYEY SAND

SAND SILT CLAY

CLAYEY SILT

GRAVELLY SAND

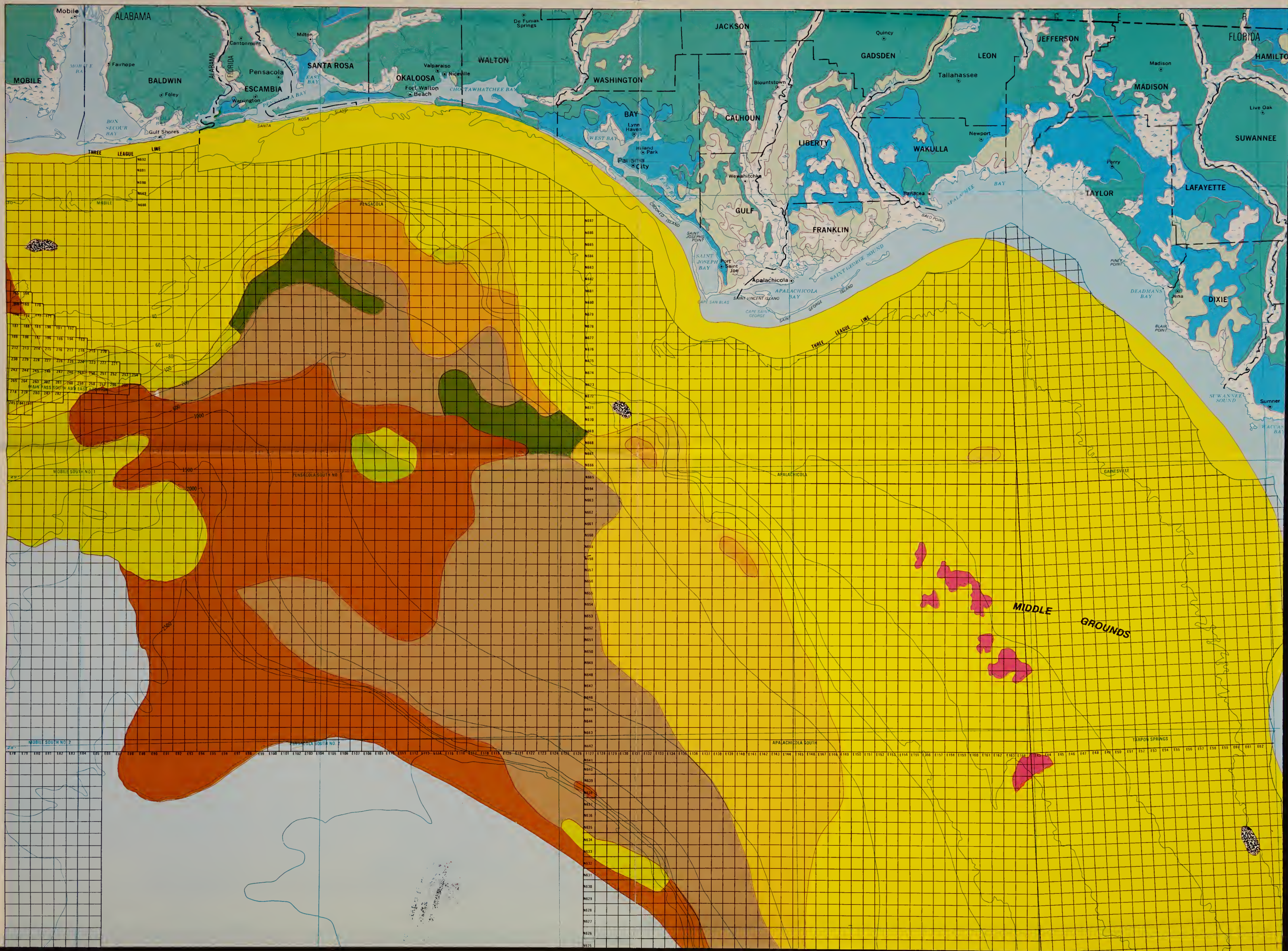
REPORTED HARD BEDROCK

Bureau of Land Management  
Denver Service Center

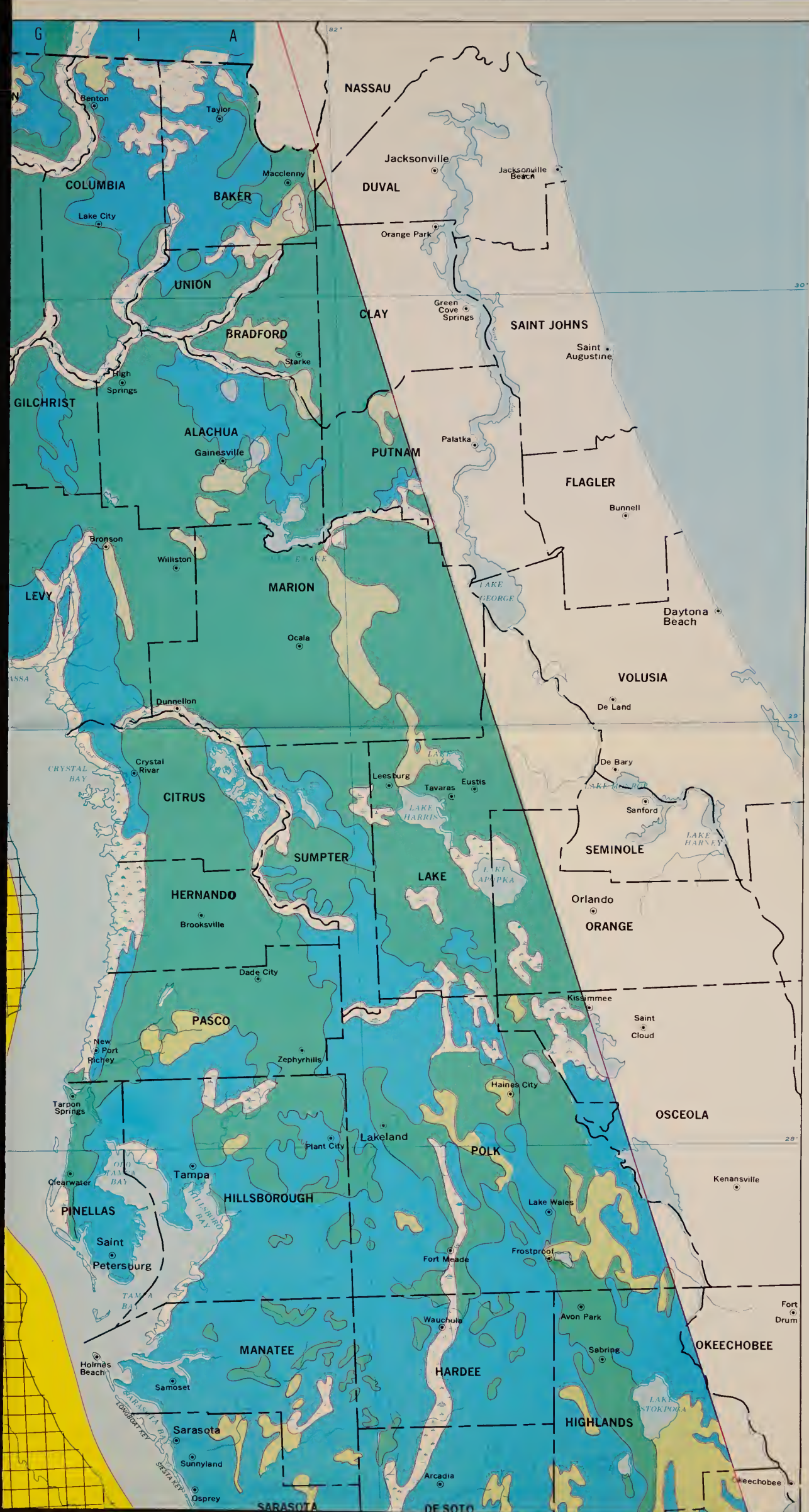
SOURCE: John E. Gault  
Chart of Submarine and Submerged Lands  
Revised July 1960  
NATIONAL MARINE FISHERIES SERVICE  
U.S. DEPARTMENT OF THE INTERIOR

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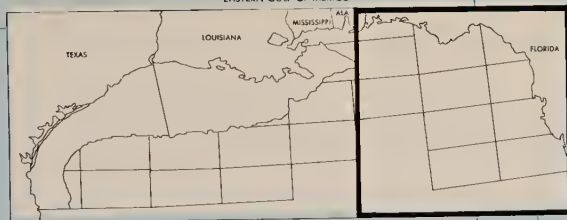








LOCATION DIAGRAM  
EASTERN GULF OF MEXICO



SCALE 1:1,000,000 (APPRDX.) 10 0 10 20 30 40 50 STATUTE MILES

Prepared in conjunction with proposed  
OCS lease sale no. 41

# UNITED STATES DEPARTMENT OF INTERIOR BUREAU OF LAND MANAGEMENT

OUTER CONTINENTAL SHELF  
EASTERN GULF OF MEXICO

UPLAND SOILS  
BOTTOM SEDIMENTS

VISUAL NO. 3



COUNTY BOUNDARIES



AREAS DOMINATED BY EXCESSIVELY TO  
MODERATELY WELL DRAINED SOILS



AREAS DOMINATED BY SOMEWHAT  
POORLY DRAINED SOILS



FRESH WATER SWAMP, MARSH, TIDAL MARSH  
— COASTAL BEACH AND DUNES

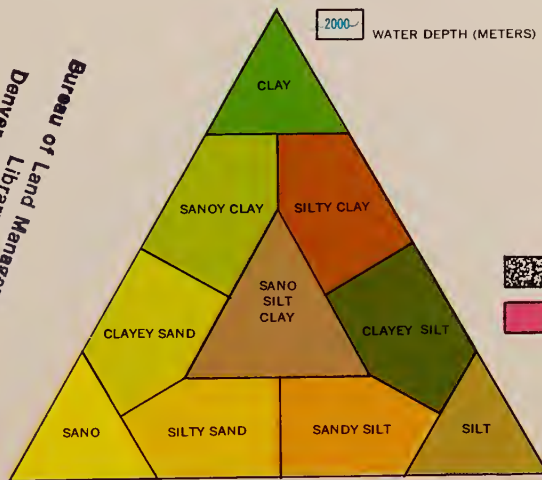


AREAS DOMINATED BY POORLY TO VERY  
POORLY DRAINED SOILS

Bureau of Land Management  
Library  
Denver Service Center

2000

WATER DEPTH (METERS)



GRAVELLY SAND



REPORTED HARD BANK

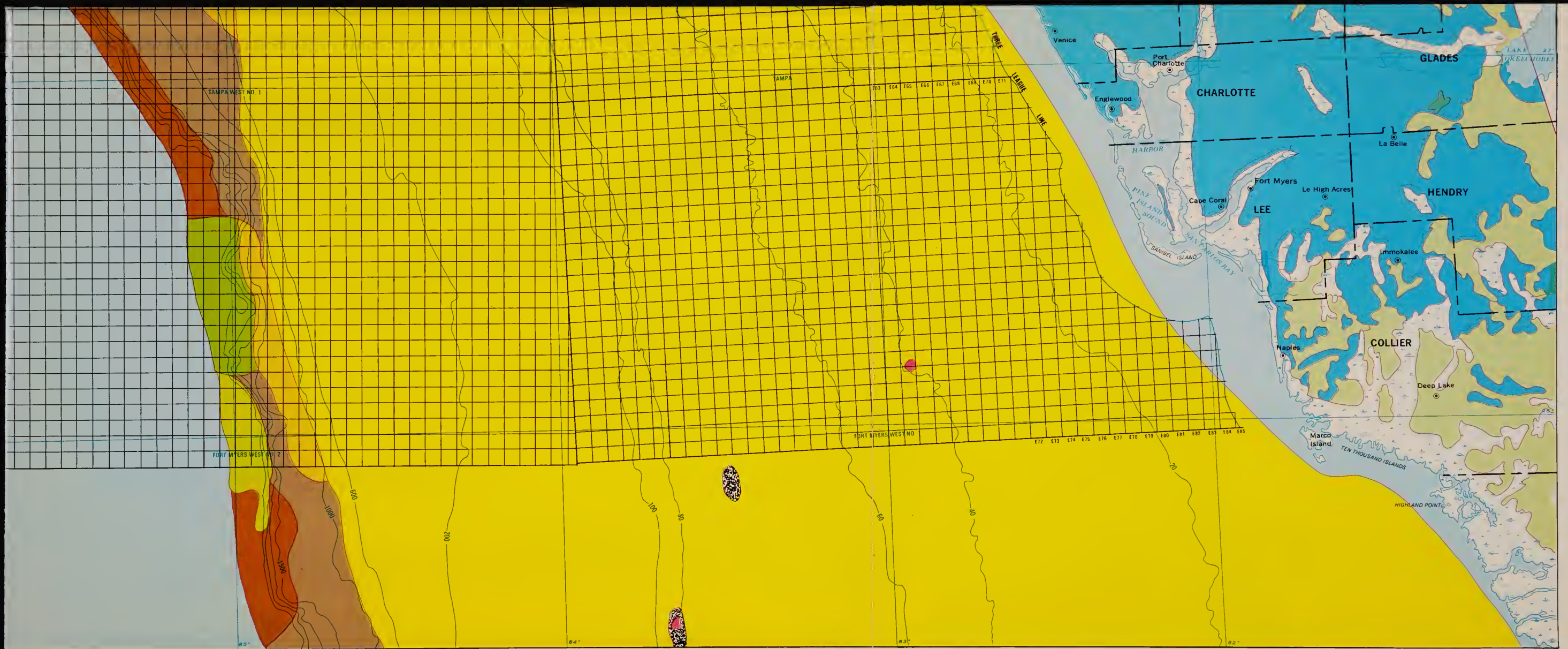
SOURCE: John R. Grady  
Chart of Distribution of Sediment Types  
Northern Gulf of Mexico—1970  
NOAA National Marine Fisheries Service  
Gulf Coastal Fisheries Center

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Published December 1975.

#4785402

TD45.P4 G355 W-6 v.3







UNITED STATES DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT  
OUTER CONTINENTAL SHELF  
GULF OF MEXICO AND ATLANTIC OCEAN  
PHYTOPLANKTON PRODUCTION<sup>1</sup> AND BENTHIC PLANT  
DISTRIBUTION  
VISUAL NO. 3

SCALE 1:2,160,000

mgC/m<sup>2</sup>/d



30 METERS  
200 METERS

- AREA INHABITED BY BENTHIC PLANTS<sup>3,\*</sup>
- DISTRIBUTION OF BENTHIC PLANTS
- AREA LOCALLY INHABITED BY ONE OR MORE SEAGRASS SPECIES, THEIR EPIPHYTES, AND ALGAL ASSOCIATES<sup>3,\*</sup>

GULF OF MEXICO ZOOPLANKTON DISTRIBUTION<sup>2</sup>  
51 200 mgC/m<sup>3</sup> FOR ENTIRE GULF

<sup>1</sup> AFTER KOBLTZ, MISHKE, VOLKOVSKY AND KABANOVA, 1969

<sup>2</sup> AFTER V.G. BOGOROV ET AL. 1968

<sup>3</sup> AFTER S.A. EARLE, 1972

\*SEE NOTE

Bureau of Land Management  
Library  
Darter Service Center

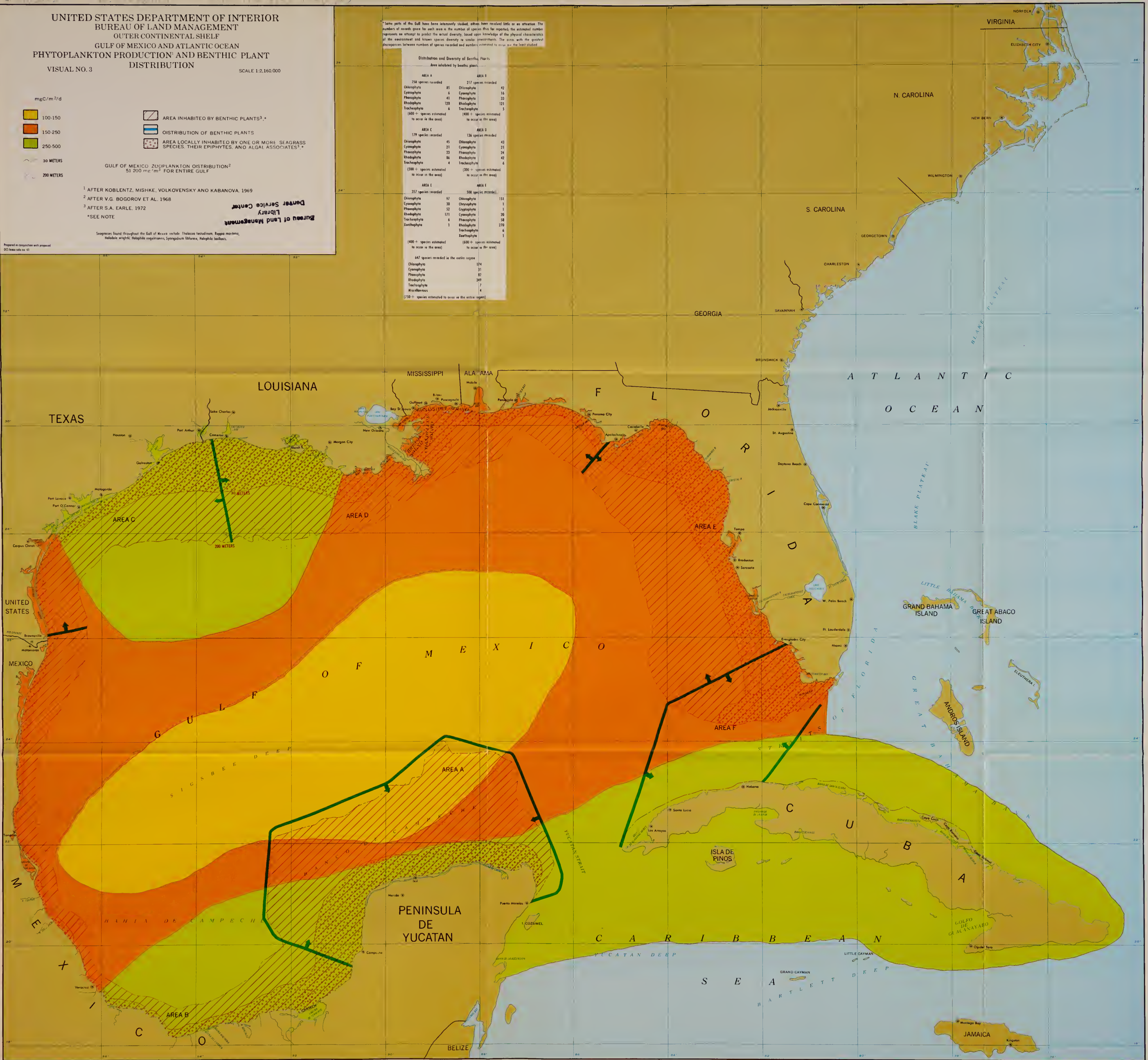
Seagrasses found throughout the Gulf of Mexico include: *Thalassia testudinum*, *Ruppia maritima*, *Halodule wrightii*, *Halophila engelmannii*, *Syringodium filiforme*, *Halophila* sp.

Prepared in conjunction with proposed  
GOMSA rule no. 41

\*Some parts of the Gulf have been intensively studied, others have received little or no attention. The numbers of records given for each area is the number of species that have been reported. The estimated number represents an attempt to predict the actual diversity, based upon knowledge of the physical characteristics of the environment and known species diversity in similar environments. The areas with the greatest discrepancies between numbers of species recorded and numbers estimated to occur are the least studied.

Distribution and Diversity of Benthic Plants  
Area subdivided by benthic plant

AREA A	AREA B
258 species recorded	217 species recorded
Chlorophyta 85	Chlorophyta 42
Cyanophyta 6	Cyanophyta 16
Phaeophyta 41	Phaeophyta 33
Rhodophyta 120	Rhodophyta 121
Tracheophyta 6	Tracheophyta 5
(600+ species estimated to occur in this area)	(400+ species estimated to occur in this area)
AREA C	AREA D
179 species recorded	136 species recorded
Chlorophyta 45	Chlorophyta 43
Cyanophyta 21	Cyanophyta 21
Phaeophyta 23	Phaeophyta 24
Rhodophyta 86	Rhodophyta 42
Tracheophyta 4	Tracheophyta 6
(100+ species estimated to occur in this area)	(200+ species estimated to occur in this area)
AREA E	AREA F
257 species recorded	598 species recorded
Chlorophyta 97	Chlorophyta 151
Cyanophyta 30	Cyanophyta 1
Phaeophyta 52	Cryptophyta 1
Rhodophyta 171	Cyanophyta 20
Tracheophyta 6	Phaeophyta 58
Zooxanthellae 1	Rhodophyta 270
	Tracheophyta 6
	Zooxanthellae 1
(600+ species estimated to occur in this area)	(600+ species estimated to occur in this area)
AREA G	
647 species recorded in the entire region	
Chlorophyta 174	
Cyanophyta 31	
Phaeophyta 87	
Rhodophyta 249	
Tracheophyta 7	
Miscellaneous 4	
(750+ species estimated to occur in the entire region)	



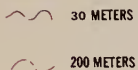


UNITED STATES DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT  
OUTER CONTINENTAL SHELF  
GULF OF MEXICO AND ATLANTIC OCEAN  
PHYTOPLANKTON PRODUCTION<sup>1</sup> AND BENTHIC PLANT  
DISTRIBUTION

VISUAL NO. 3

SCALE 1:2,160,000

mgC/m<sup>2</sup>/d



AREA INHABITED BY BENTHIC PLANTS<sup>3,\*</sup>



DISTRIBUTION OF BENTHIC PLANTS



AREA LOCALLY INHABITED BY ONE OR MORE SEAGRASS SPECIES, THEIR EPIPHYTES, AND ALGAL ASSOCIATES<sup>3,\*</sup>

GULF OF MEXICO ZOOPLANKTON DISTRIBUTION<sup>2</sup>  
51-200 mgC/m<sup>3</sup> FOR ENTIRE GULF

<sup>1</sup> AFTER KOBLENTZ, MISHKE, VOLKOVENSKY AND KABANOVA, 1969.

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<sup>3</sup> AFTER S.A. EARLE, 1972

\*SEE NOTE

Seagrasses found throughout the Gulf of Mexico include: *Thalassia testudinum*, *Ruppia maritima*, *Halodule wrightii*, *Halophila engelmannii*, *Syringodium filiforme*, *Halophila baillonis*.

Prepared in conjunction with proposed  
OCS lease sale no. 41

\*Some parts of the Gulf have been intensively studied; others have not. Numbers of records given for each area is the number of species known to occur in the area. This represents an attempt to predict the actual diversity, based upon knowledge of the environment and known species diversity in similar environments. Discrepancies between numbers of species recorded and numbers estimated to occur in the area are indicated.

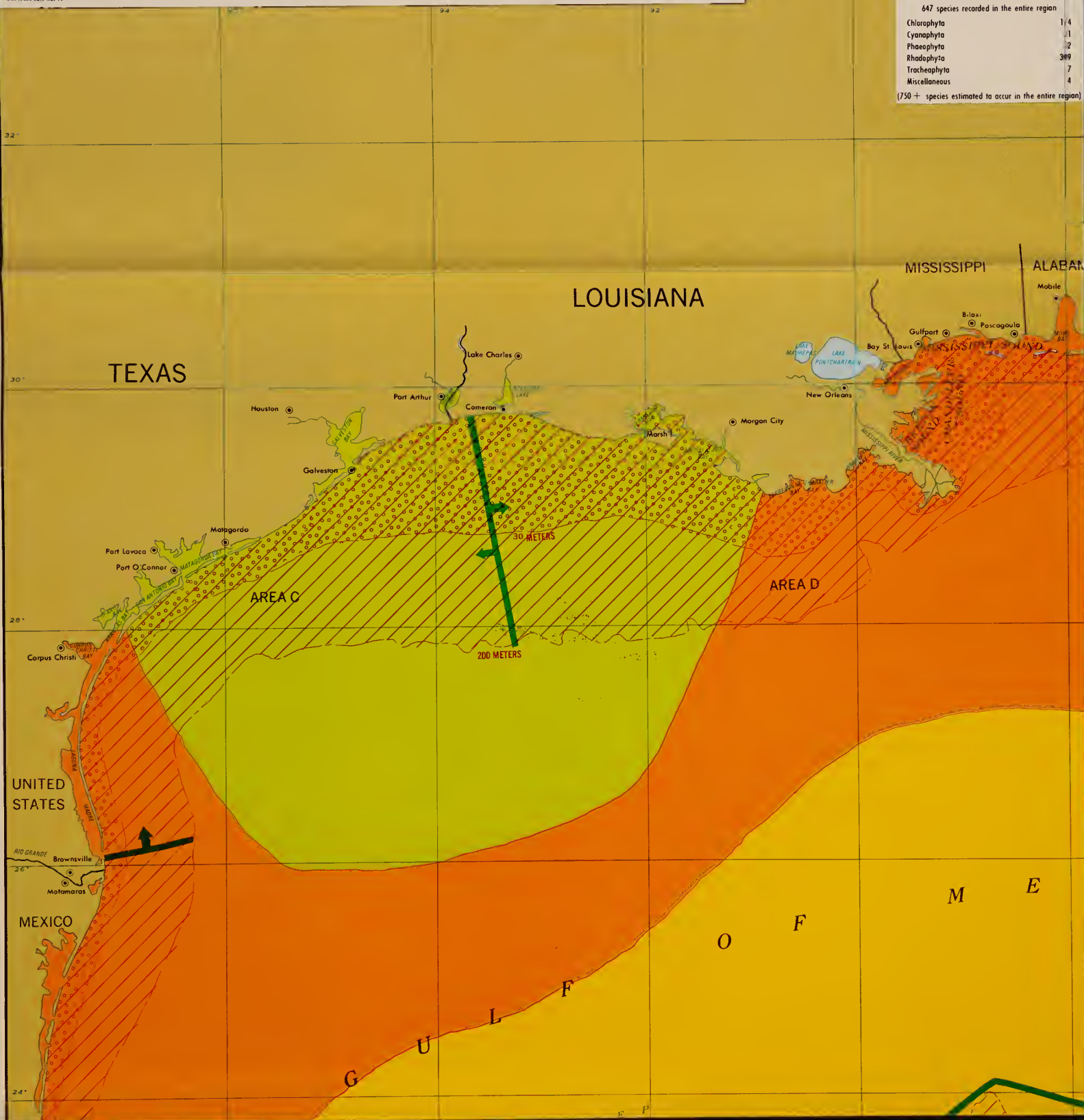
Distribution and Diversity of Benthic Plants  
Area inhabited by benthic plants

AREA A	AREA B
258 species recorded	217 species recorded
Chlorophyta 85	Chlorophyta 85
Cyanophyta 6	Cyanophyta 6
Phaeophyta 41	Phaeophyta 41
Rhodophyta 120	Rhodophyta 120
Tracheophyta 6	Tracheophyta 6
(600 + species estimated to occur in the area)	(400 + species estimated to occur in the area)

AREA C	AREA D
179 species recorded	136 species recorded
Chlorophyta 45	Chlorophyta 45
Cyanophyta 21	Cyanophyta 21
Phaeophyta 23	Phaeophyta 23
Rhodophyta 86	Rhodophyta 86
Tracheophyta 4	Tracheophyta 4
(300 + species estimated to occur in the area)	(300 + species estimated to occur in the area)

AREA E	AREA F
357 species recorded	508 species recorded
Chlorophyta 97	Chlorophyta 97
Cyanophyta 30	Cyanophyta 30
Phaeophyta 52	Cryptophyta 12
Rhodophyta 171	Phaeophyta 171
Tracheophyta 6	Phaeophyta 6
Xanthophyta 1	Rhodophyta 1
	Tracheophyta 1
	Xanthophyta 1
(400 + species estimated to occur in the area)	(600 + species estimated to occur in the area)

647 species recorded in the entire region
Chlorophyta 1/4
Cyanophyta 1
Phaeophyta 12
Rhodophyta 389
Tracheophyta 7
Miscellaneous 4
(750 + species estimated to occur in the entire region)





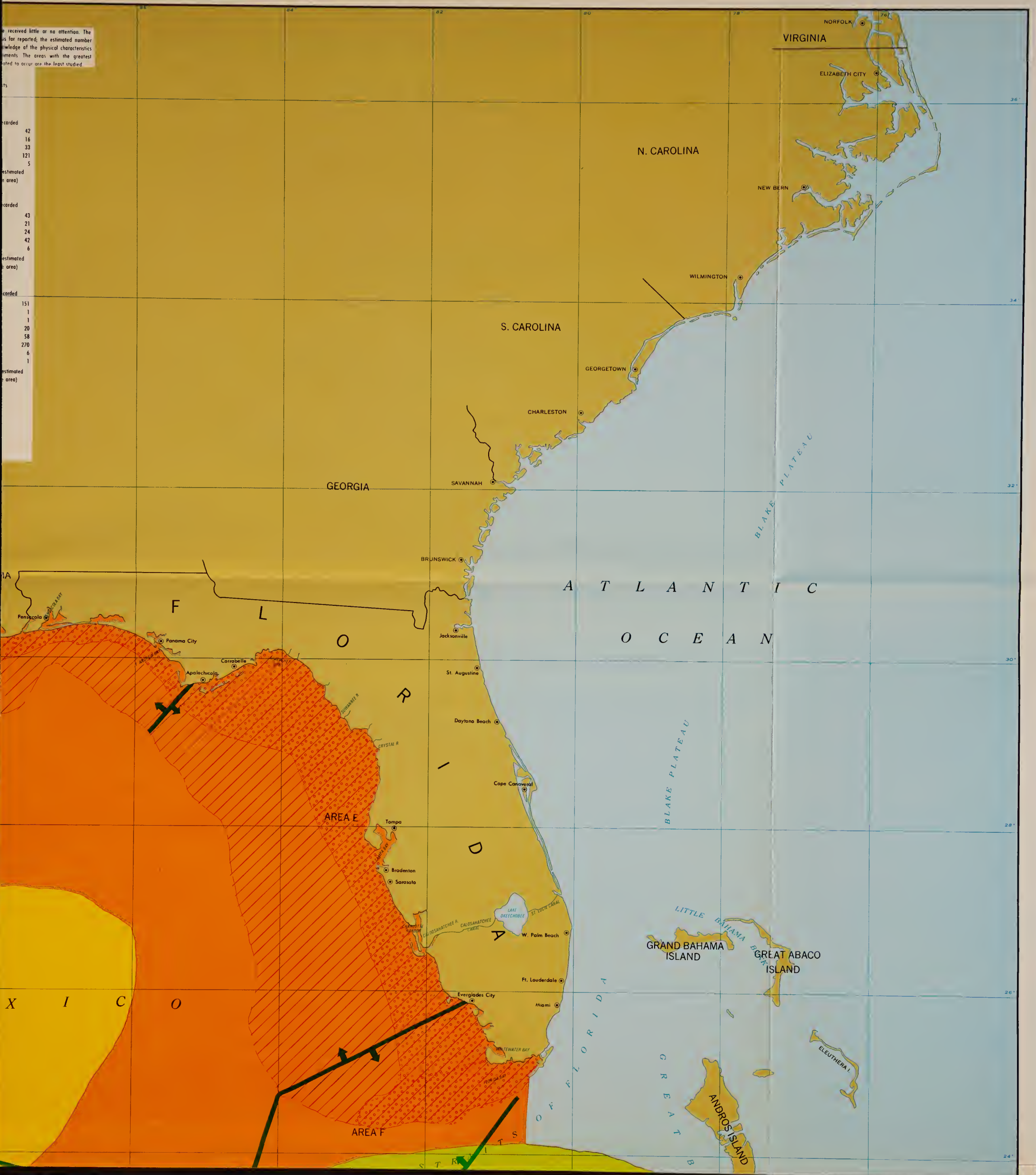
received little or no attention. The  
as far reported, the estimated number  
knowledge of the physical characteristics  
elements. The areas with the greatest  
lated to occur are the least studied

recorded  
42  
16  
33  
121  
5

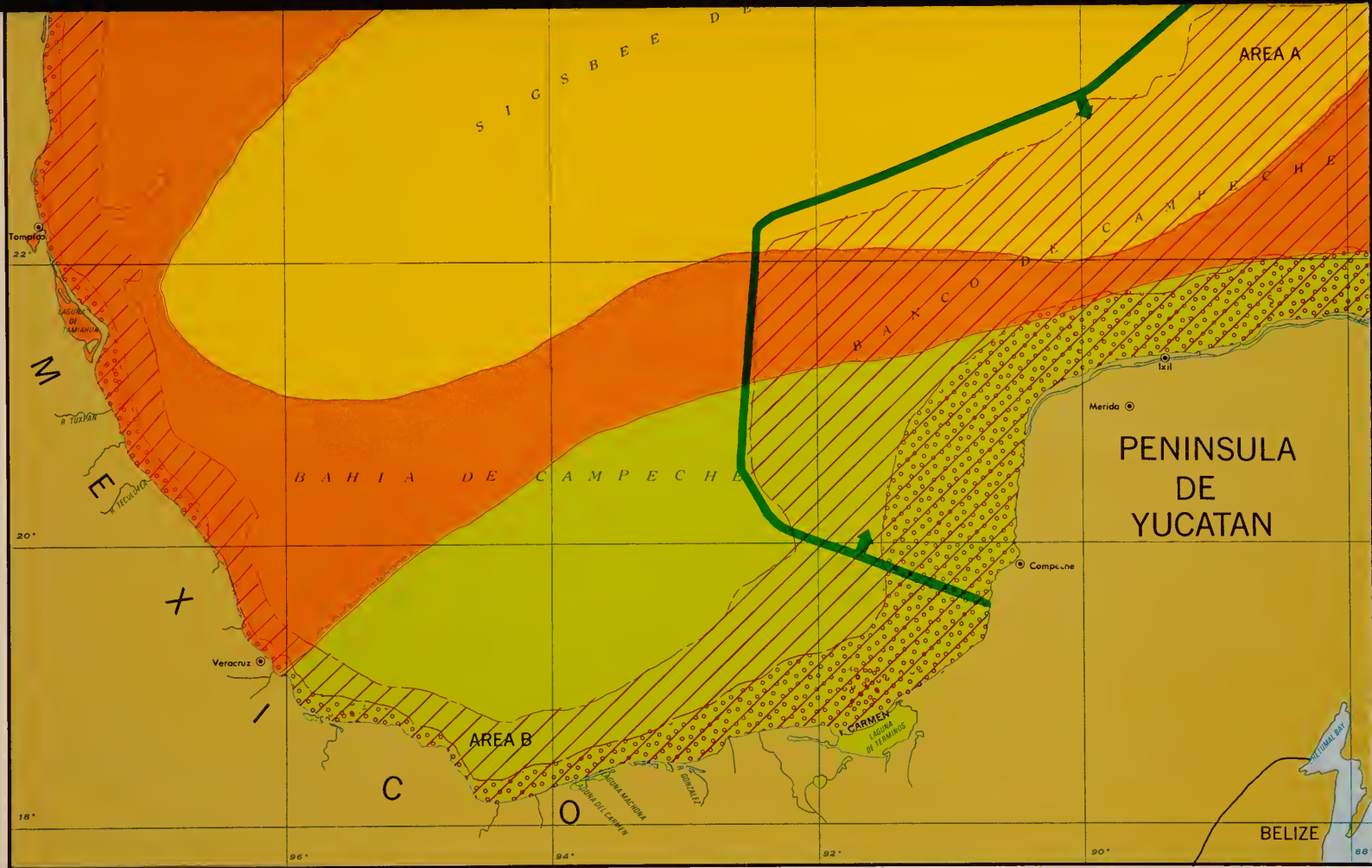
estimated  
(area)  
recorded  
43  
21  
24  
42  
6

estimated  
(area)  
recorded  
151  
1  
1  
20  
58  
270  
6  
1

estimated  
(area)













#4735702 13-0007003 2045.7 6355 125 V.5

UNITED STATES DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT  
OUTER CONTINENTAL SHELF  
WESTERN GULF OF MEXICO  
NATURAL VEGETATION ENDANGERED WILDLIFE  
UNDERSEA FEATURES

— COUNTY BOUNDARIES

2500 WATER DEPTH (METERS)

PRAIRIE GRASSLANDS	COASTAL STRAND	OFFSHORE SPORT FISHING AREAS
MIXED HARDWOOD AND PINES	WATERFOWL PRAIRIE CHICKEN (AREAS OF NESTING CONCENTRATION)	OFFSHORE GROUP OF COMMERCIAL BANKS
LIVE OAK	BROWN PELICAN (CURRENT ROOKERIES)	REPORTED HARD BANKS
MESQUITE	WHOOPING CRANE	REPORTED ROCKS
MIXED BRUSH	RED WOLF	SHIPWRECKS
URBAN AND INDUSTRIAL	ARCTIC PEREGRINE FALCON (MIGRATION ROUTE)	REPORTED HOLES
OAK-GUM-CYPRESS	BALD EAGLES (COUNTIES OF KNOWN NESTING)	FISH HAVENS
ASH-HACKBERRY-PECAN-COTTONWOOD	OCELOT AND JAGUARUNDI	BUOYED FISH HAVENS
MARSH (SALINE AND BRACKISH)	PRIMARY DABBLING DUCK	MAJOR INSHORE FISHING AREAS
FRESH MARSH		
INTERMEDIATE MARSH		

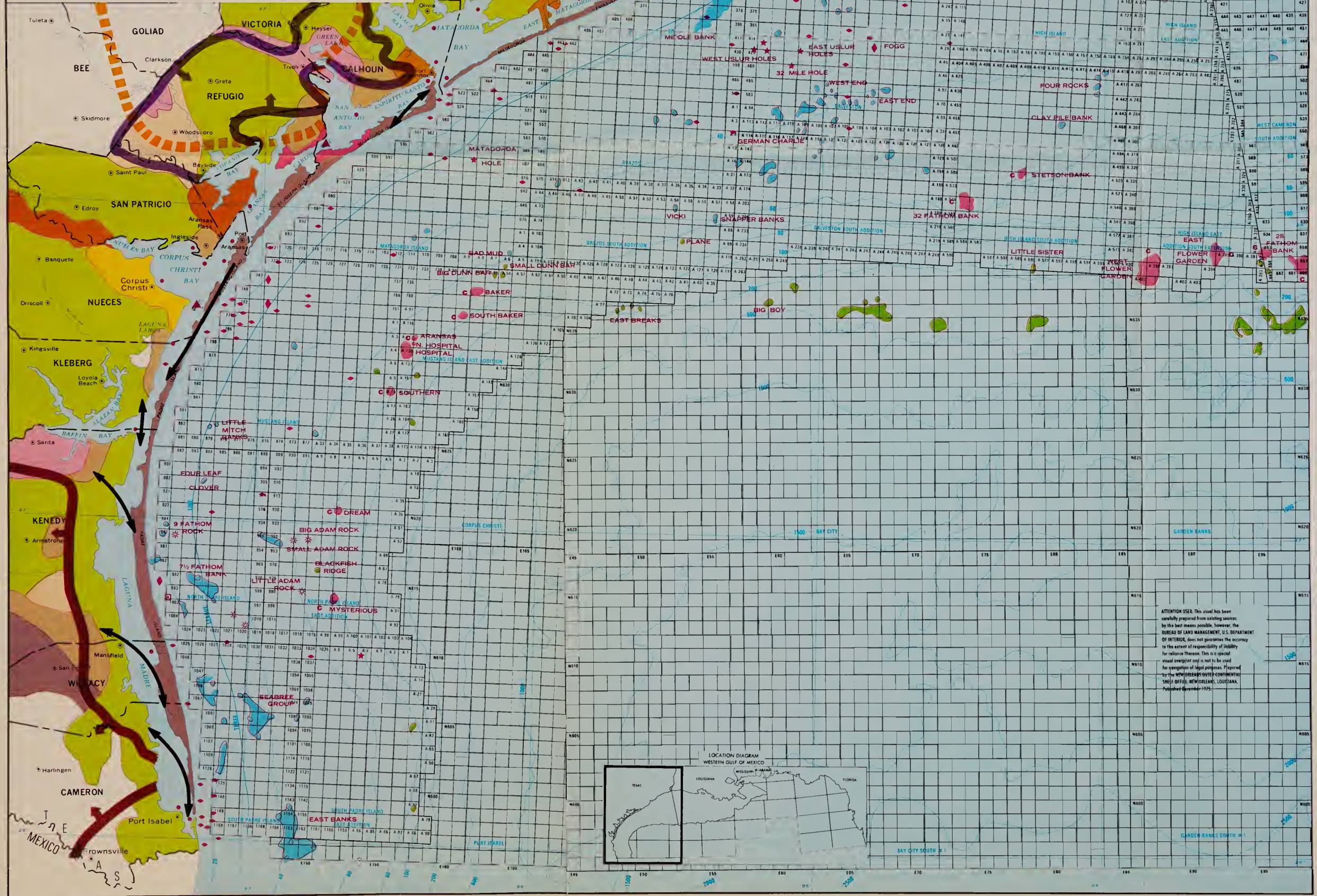
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VLS 10000 1000 00 47

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STATUTE MILES

0 10 20 30 40 50

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#4795702

ID: 85076073

TD 175.74 GY55 1176 V.3

UNITED STATES DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT  
OUTER CONTINENTAL SHELF  
WESTERN GULF OF MEXICO  
NATURAL VEGETATION      ENDANGERED WILDLIFE  
UNDERSEA FEATURES



COUNTY BOUNDARIES



2500 WATER DEPTH (METERS)



PRAIRIE GRASSLANDS



MIXED HARDWOOD AND PINES



LIVE OAK



MESQUITE



MIXED BRUSH



URBAN AND INDUSTRIAL



OAK-GUM-CYPRESS

ASH-HACKBERRY-  
PECAN-COTTONWOOD

MARSH (SALINE AND BRACKISH)



FRESH MARSH



INTERMEDIATE MARSH



COASTAL STRAND

ATTWATER PRAIRIE CHICKEN  
(AREAS OF NESTING  
CONCENTRATION)BROWN PELICAN  
(CURRENT ROOKERIES)

WHOOPING CRANE



RED WOLF

ARCTIC PEREGRINE FALCON  
(MIGRATION ROUTE)BALD EAGLES (COUNTIES  
OF KNOWN NESTING)

OCELOT AND JAGUARUNDI



PRIMARY DABBING DUCK

OFFSHORE  
SPORT FISHING AREASOFFSHORE GROUP OF  
COMMERCIAL BANKS

REPORTED HARD BANKS



REPORTED ROCKS



SHIPWRECKS



REPORTED HOLES



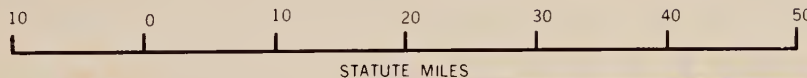
FISH HAVENS



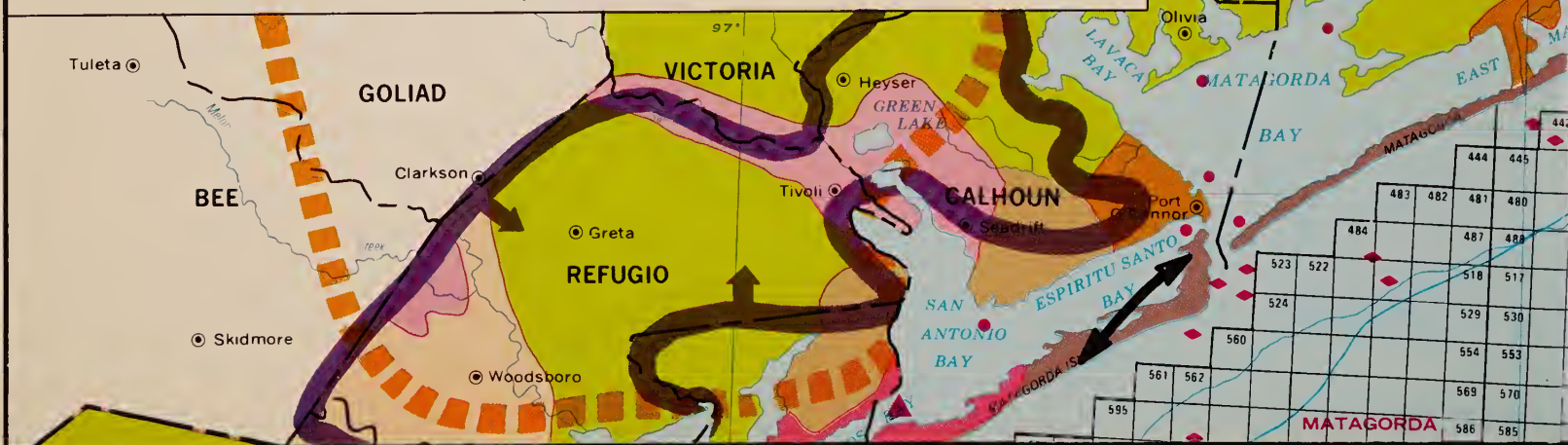
BUOYED FISH HAVENS

MAJOR INSHORE  
FISHING AREASPrepared in conjunction with proposed  
OCS lease sale no. 41

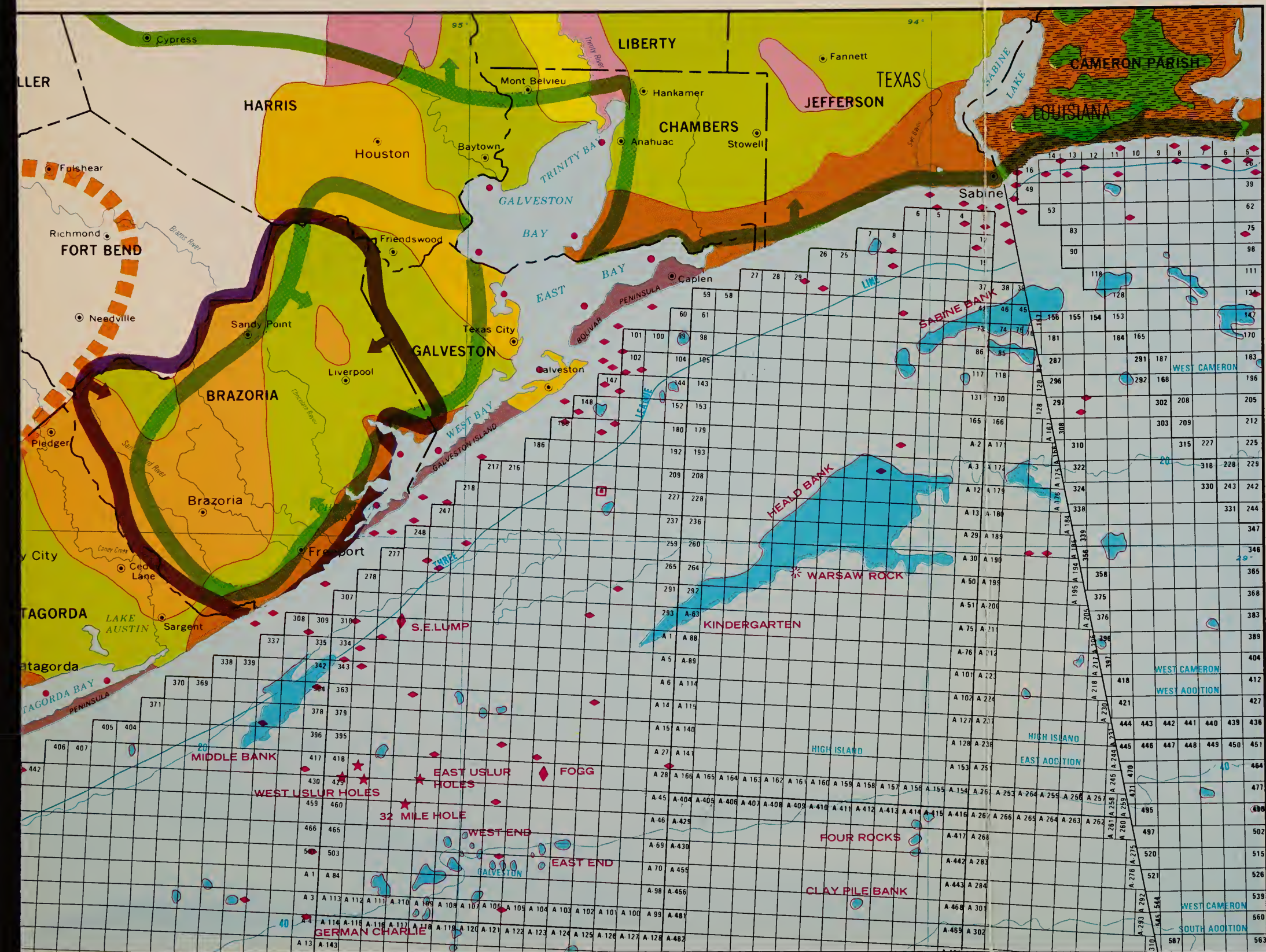
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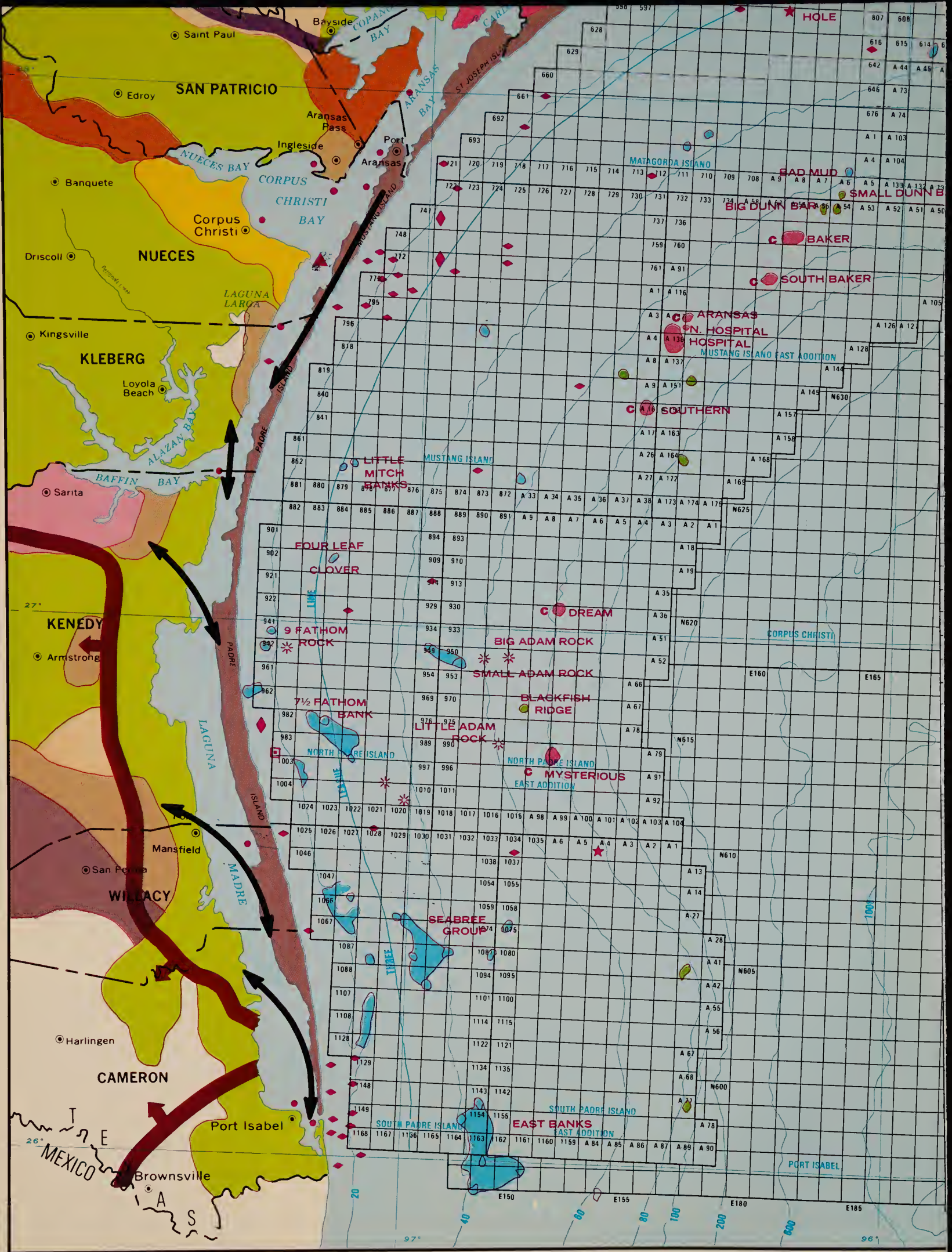
VISUAL NO. 4

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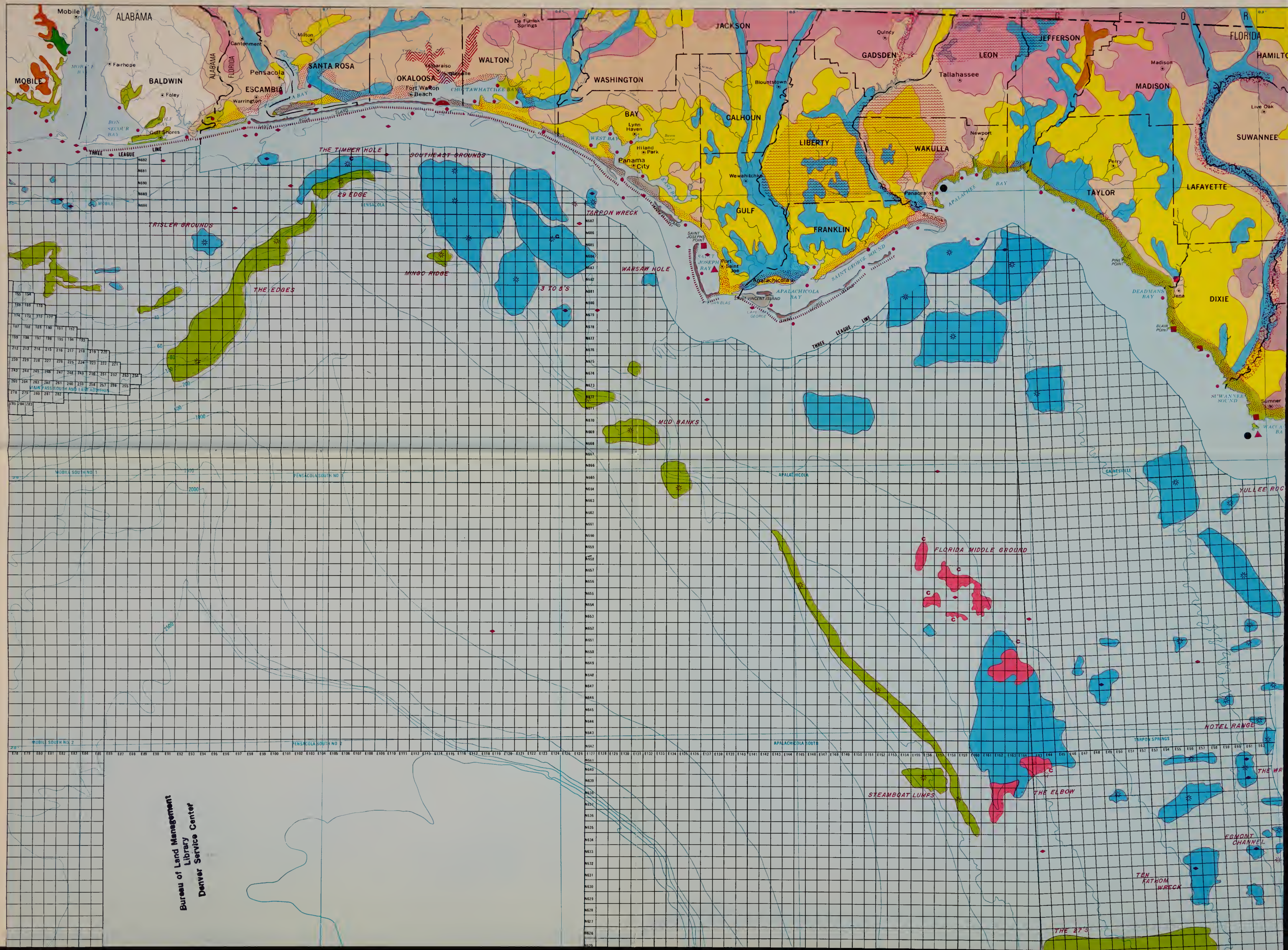
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Service Center  
Denver Service Center

UNITED STATES DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT  
OUTER CONTINENTAL SHELF  
EASTERN GULF OF MEXICO

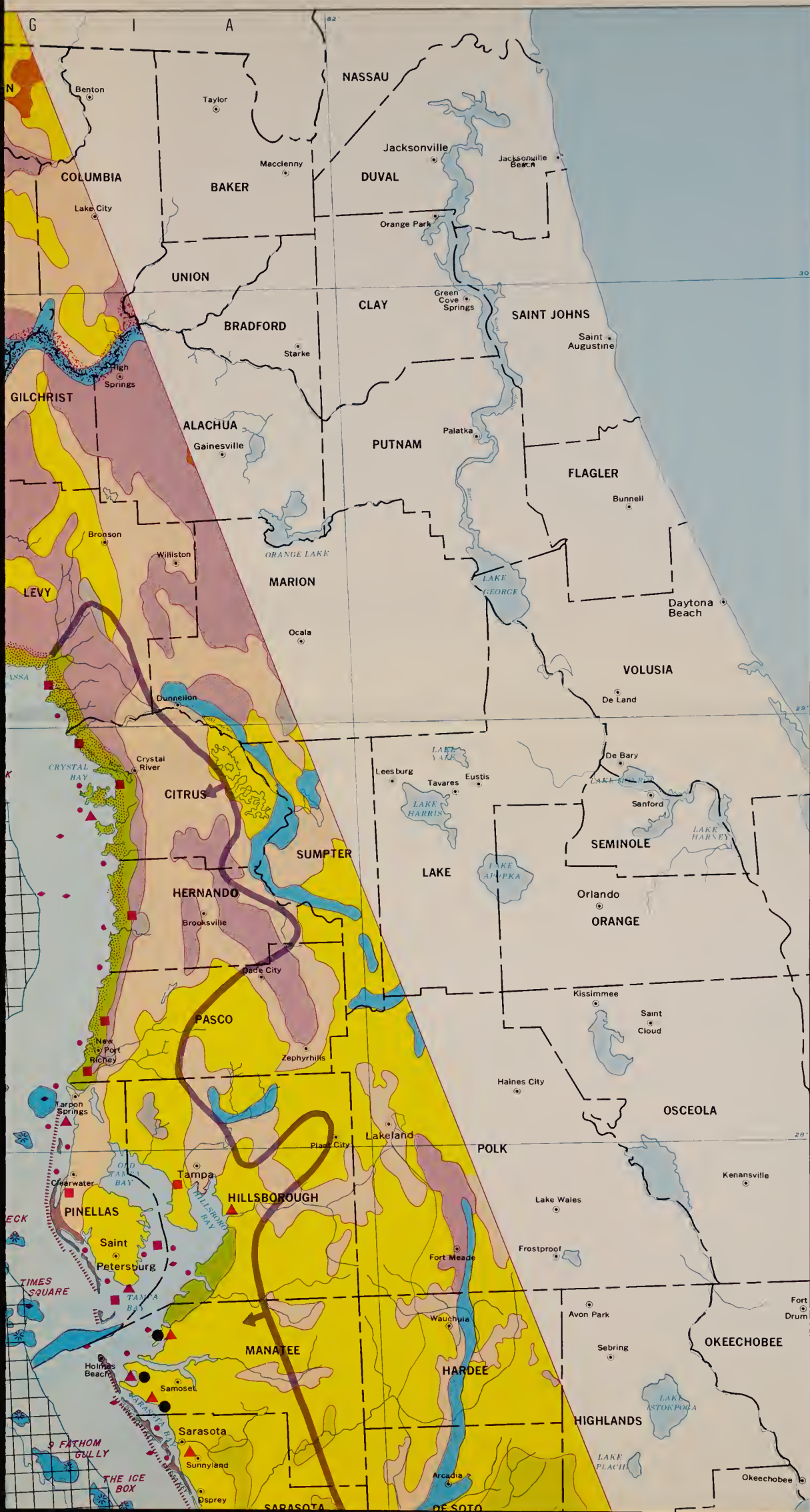
- VISUAL NO. 4
- |  |                                    |  |
|--|------------------------------------|--|
| COUNTY BOUNDARIES                            | INTERMEDIATE MARSH                 | WATER DEPTH (METERS)   |
| COASTAL STRAND                               | FRESH WATER MARSH                  | SUNWEE BASS  |
| MANGROVE SWAMP AND SALINE AND BRACKISH MARSH | HARDWOOD FORESTS                   | BROWN PELICAN ROOKERY  |
| LONGLEAF PINE                                | MIXED HARDWOOD AND PINES           | WADING BIRD COLONY APPROX.   |
| PRAIRIE GRASSLAND                            | OFFSHORE SPORT FISHING AREAS       | OKALOOSA CARTER  |
| SWAMP FORESTS (HARDWOOD)                     | OFFSHORE GROUP OF COMMERCIAL BANKS | FLORIDA MINK   |
| SLASH PINE FORESTS                           | REPORTED HARD BANKS                | LEATHERBACK TURTLE NESTING   |
| WET-DRY PRAIRIE MARSHES                      | OPEN SCRUB CYPRESS                 | ATLANTIC LOGGERHEAD TURTLE NESTING   |
| CYPRESS SWAMP                                | REPORTED ROCKS                     | MANATEE SPECIFIC LOCALITY RECORDS, 1971-1973   |
| SAND PINE                                    | SHIPWRECKS                         | RED COCKADEE WOODPECKER, NUMEROUS COLONIES   |
| PINE FLATWOODS                               | MAJOR INSHORE FISHING AREAS        | BALD EAGLE GENERAL NESTING DISTRIBUTION AND APPROXIMATE LOCATIONS OF ACTIVE NESTS (COASTAL ONLY) |
|  |                                    | COASTWIDE ALLIGATOR DISTRIBUTION   |

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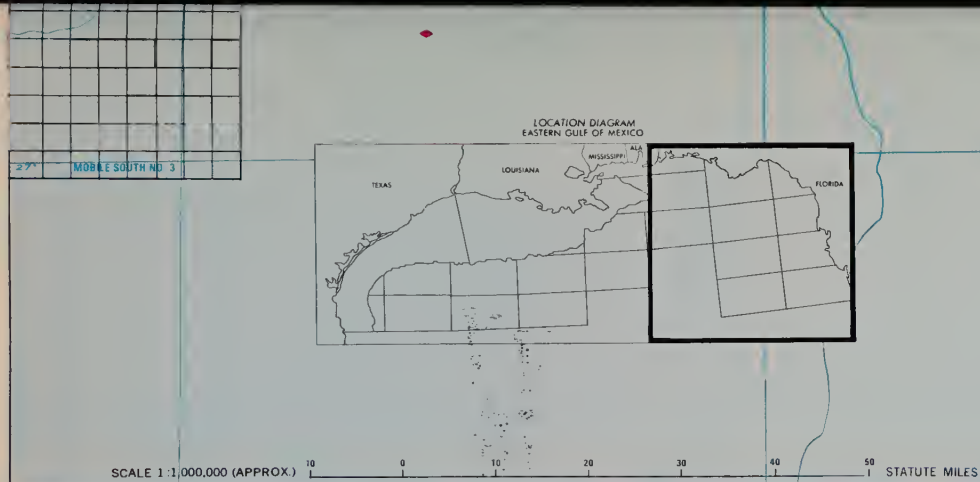












Prepared in conjunction with proposed  
OCS lease sale no. 41

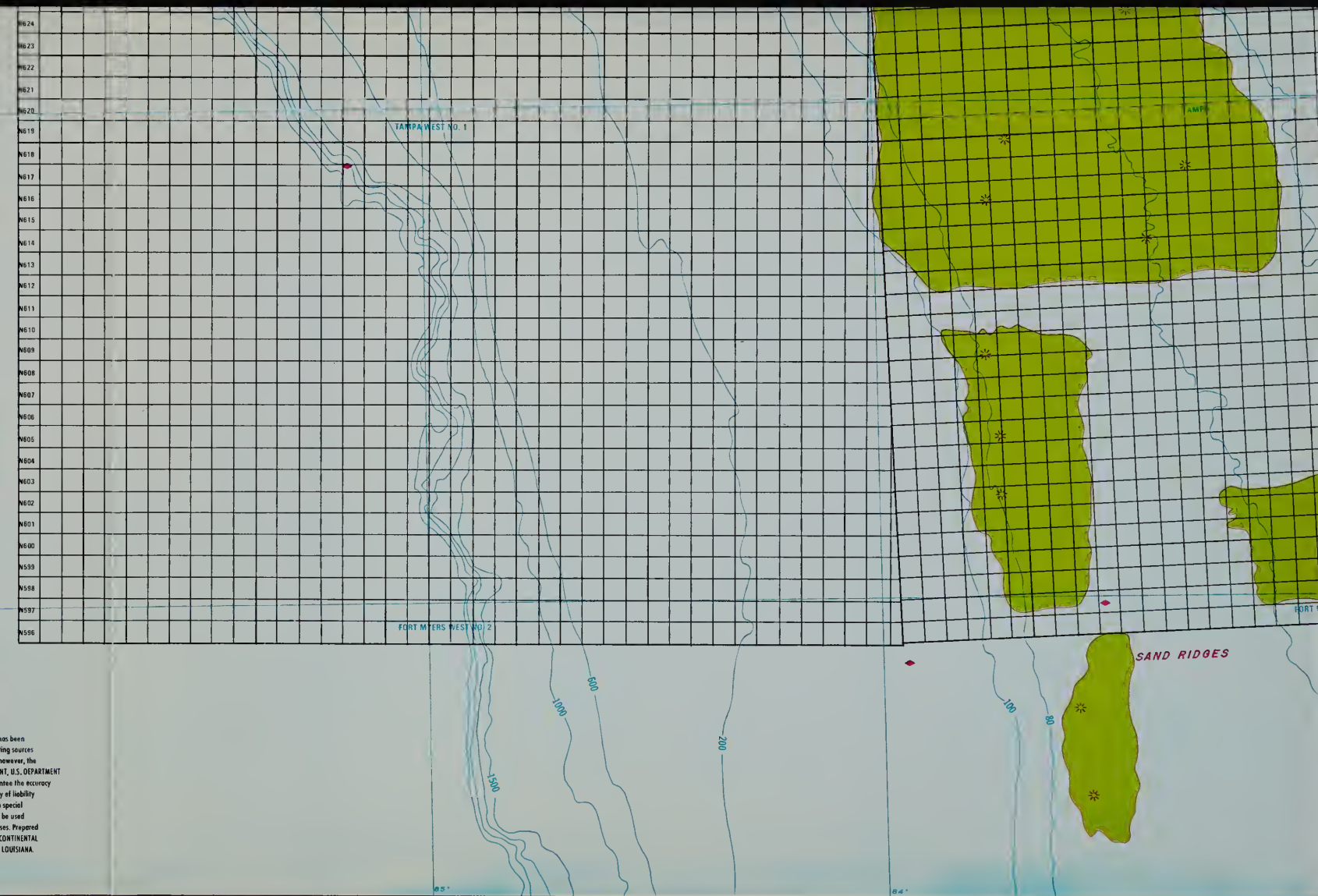
## UNITED STATES DEPARTMENT OF INTERIOR BUREAU OF LAND MANAGEMENT

### OUTER CONTINENTAL SHELF EASTERN GULF OF MEXICO

### UNDERSEA FEATURES ENDANGERED WILDLIFE NATURAL VEGETATION

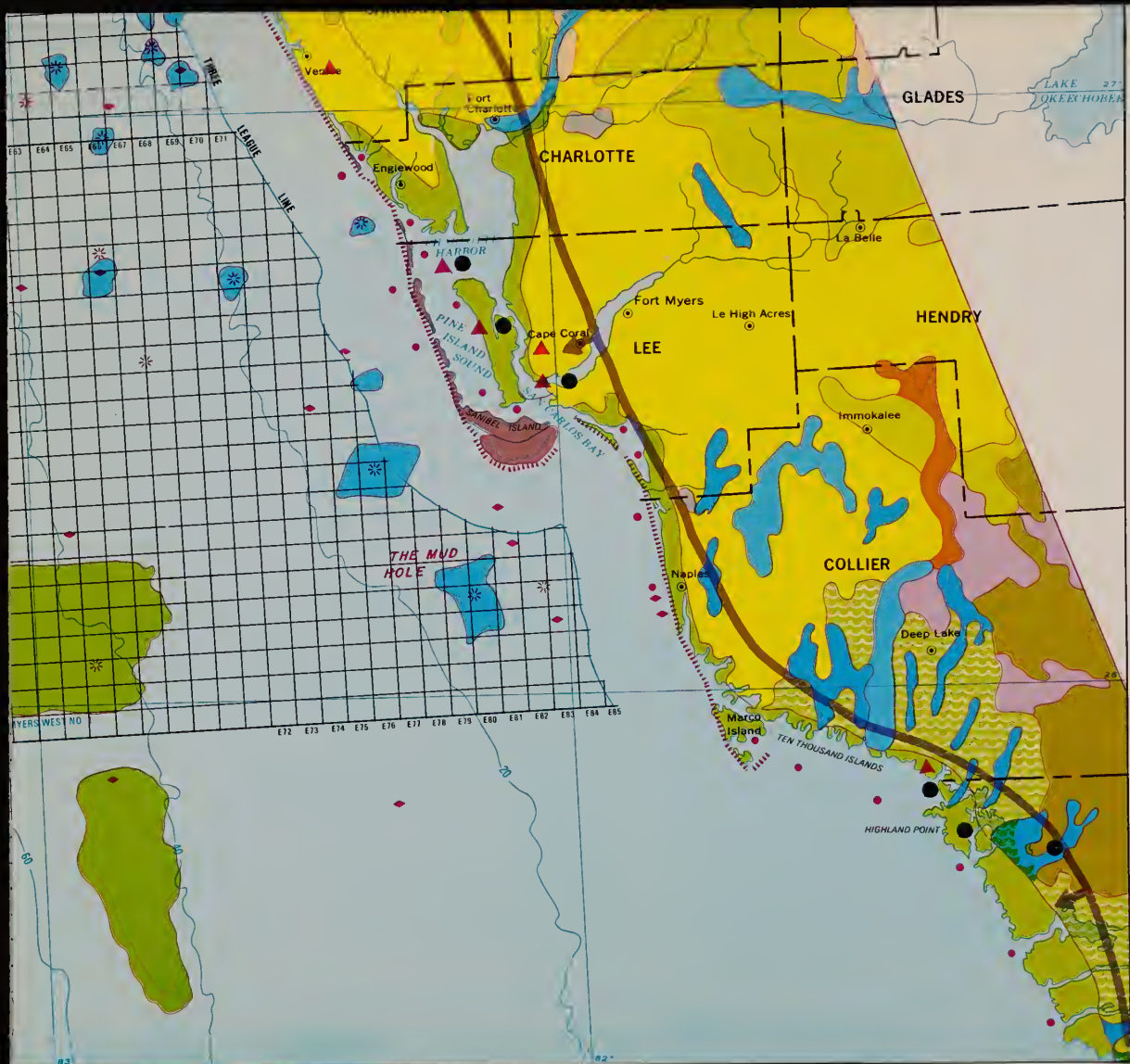
**VISUAL NO. 4**

COUNTY BOUNDARIES	INTERMEDIATE MARSH	WATER DEPTH (METERS)
COASTAL STRAND	FRESH WATER MARSH	SUWANEE BASS
MANGROVE SWAMP AND SALINE AND BRACKISH MARSH	HARDWOOD FORESTS	BROWN PELICAN RDDKERY
LONGLEAF PINE	MIXED HARDWOOD AND PINES	WADING BIRD COLDNY APPROX.
PRAIRIE GRASSLAND	OFFSHORE SPORT FISHING AREAS	OKALOOSA DARTER
SWAMP FORESTS (HARDWOOD)	OFFSHORE GROUP OF COMMERCIAL BANKS	FLORIDA MINK
SLASH PINE FORESTS	REPORTED HARD BANKS	LEATHERBACK TURTLE NESTING
WET-DRY PRAIRIE MARSHES	OPEN SCRUB CYPRESS	ATLANTIC LOGGERHEAD TURTLE NESTING
CYPRESS SWAMP	REPORTED ROCKS	MANATEE (SPECIFIC LOCALITY RECORDS, 1971-1973)
SAND PINE	SHIPWRECKS	RED COCKADEE WOODPECKER, NUMEROUS COLONIES
PINE FLATWOODS	MAJOR INSHORE FISHING AREAS	BALD EAGLE GENERAL NESTING DISTRIBUTION AND APPROXIMATE LOCATIONS OF ACTIVE NESTS (COASTAL ONLY)
		COASTALWIDE ALLIGATOR DISTRIBUTION

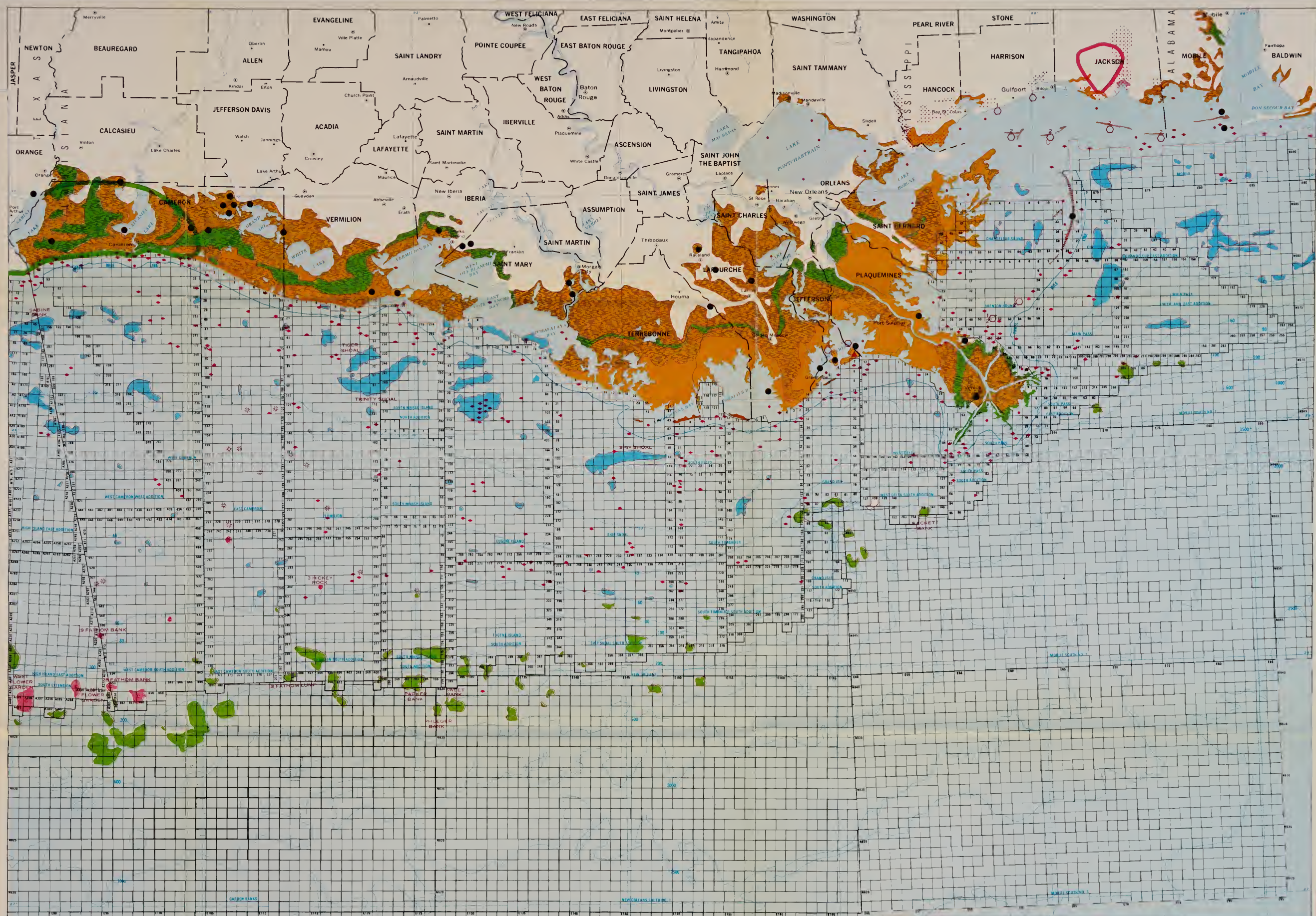


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Published December 1975.









**UNITED STATES DEPARTMENT OF INTERIOR**  
**BUREAU OF LAND MANAGEMENT**  
**OUTER CONTINENTAL SHELF**  
**CENTRAL GULF OF MEXICO**

Prepared in cooperation with proposed  
GCS basin code no. 61

**VISUAL NO. 4**

**UNDERSEA FEATURES**  
**ENDANGERED WILDLIFE**  
**NATURAL VEGETATION**

**LEGEND**

- COUNTY BOUNDARIES
- FRESH MARSH
- INTERMEDIATE MARSH
- MARSH (SALINE AND BRACKISH)
- COASTAL STRAND
- OFFSHORE GROUP OF COMMERCIAL BANKS
- OFFSHORE SPORT FISHING AREAS
- MAJOR INSHORE FISHING AREAS
- REPORTED HARD BANKS
- ALLIGATOR DISTRIBUTION
- MISSISSIPPI SANDHILL CRANE
- PRIMARY CABBING DUCK AND FURBERG HABITAT
- BROWN PELICAN ROOKERY
- SEA BIRD ROOKERIES
- WADING BIRD COLONIES (APPROXIMATED)
- LOGGERHEAD TURTLE NESTING
- RED WOLF
- REPORTED ROCKS
- SHIPWRECKS

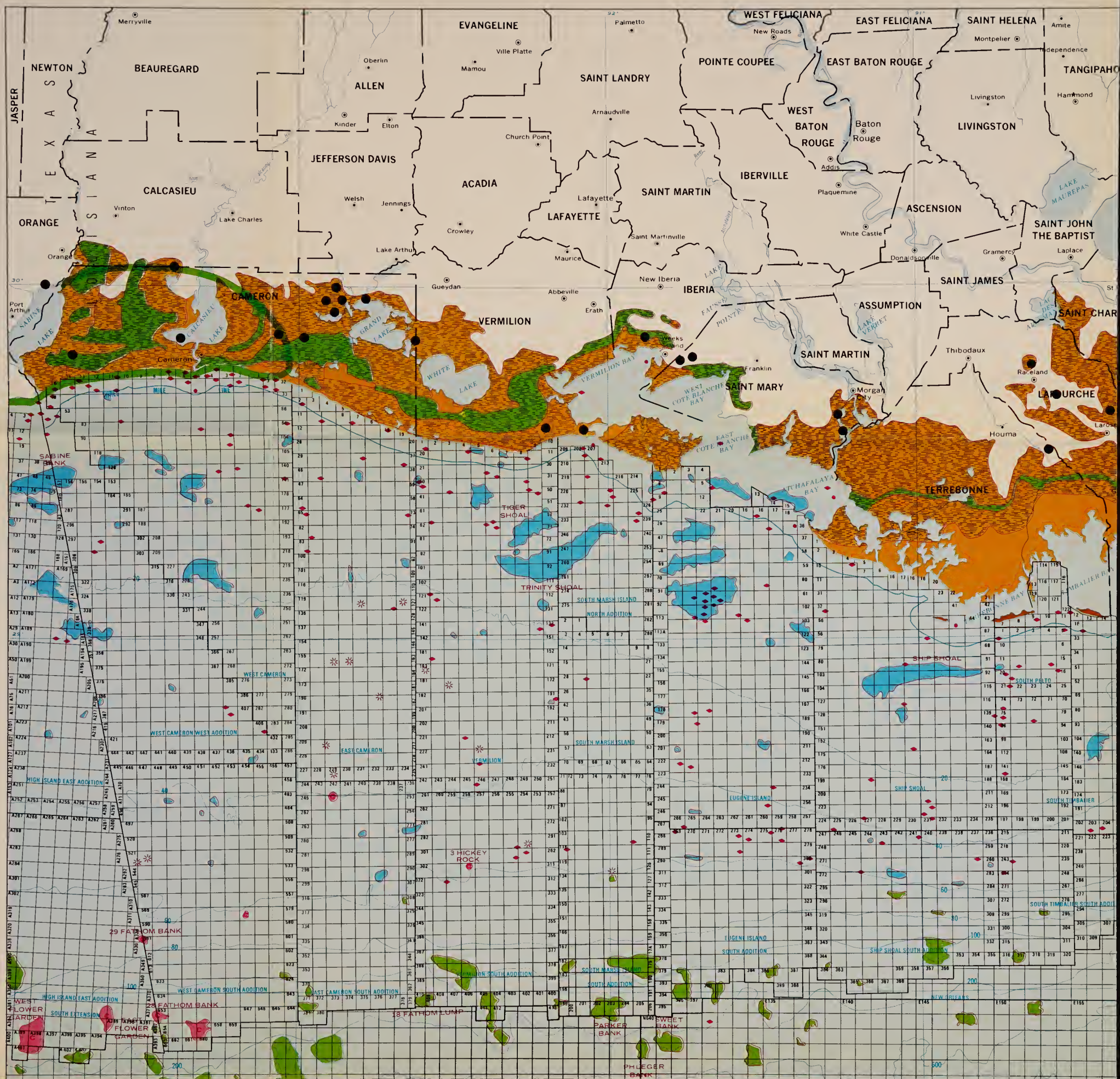
**WATER DEPTH (METERS)**

**STATUTE MILES**

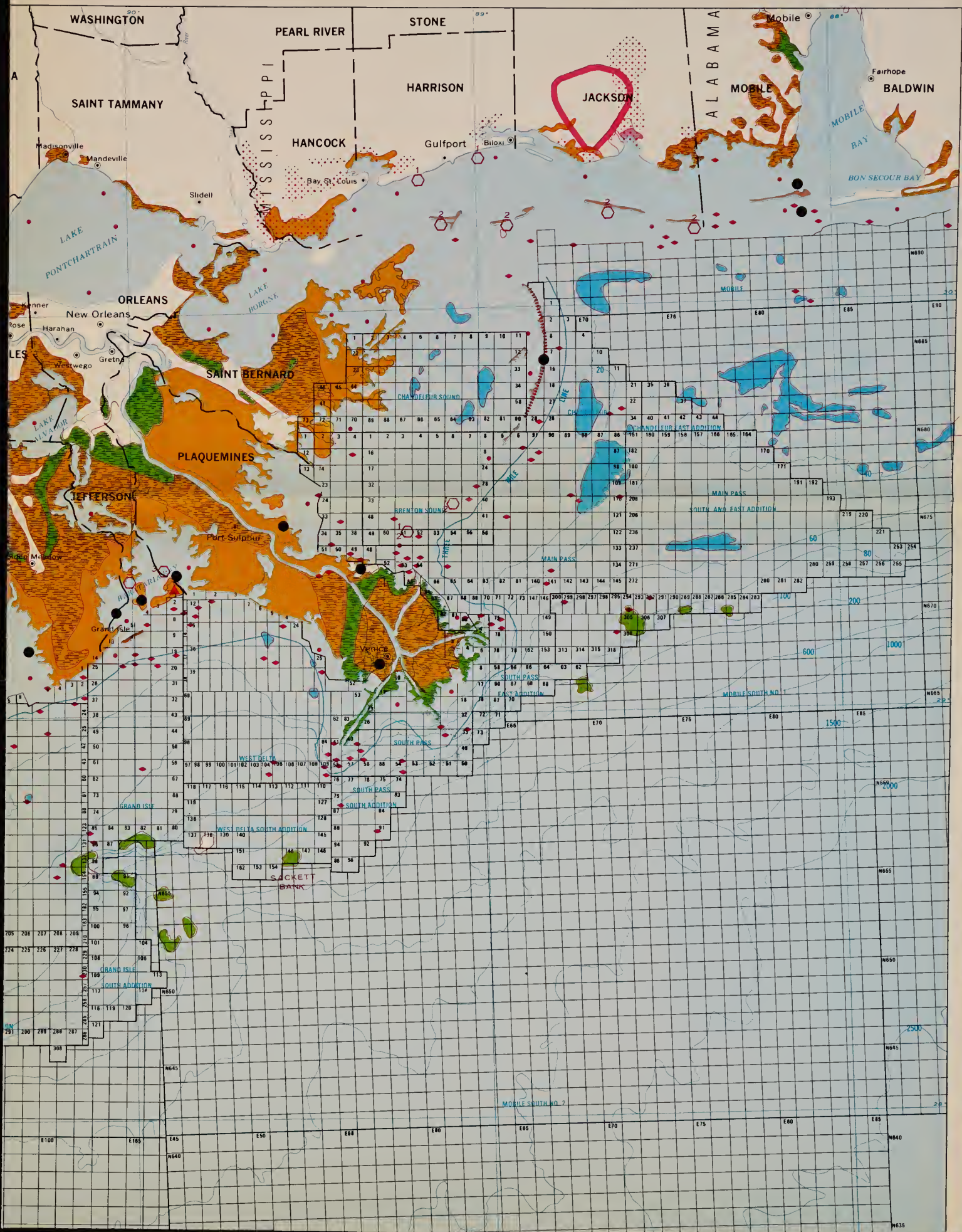
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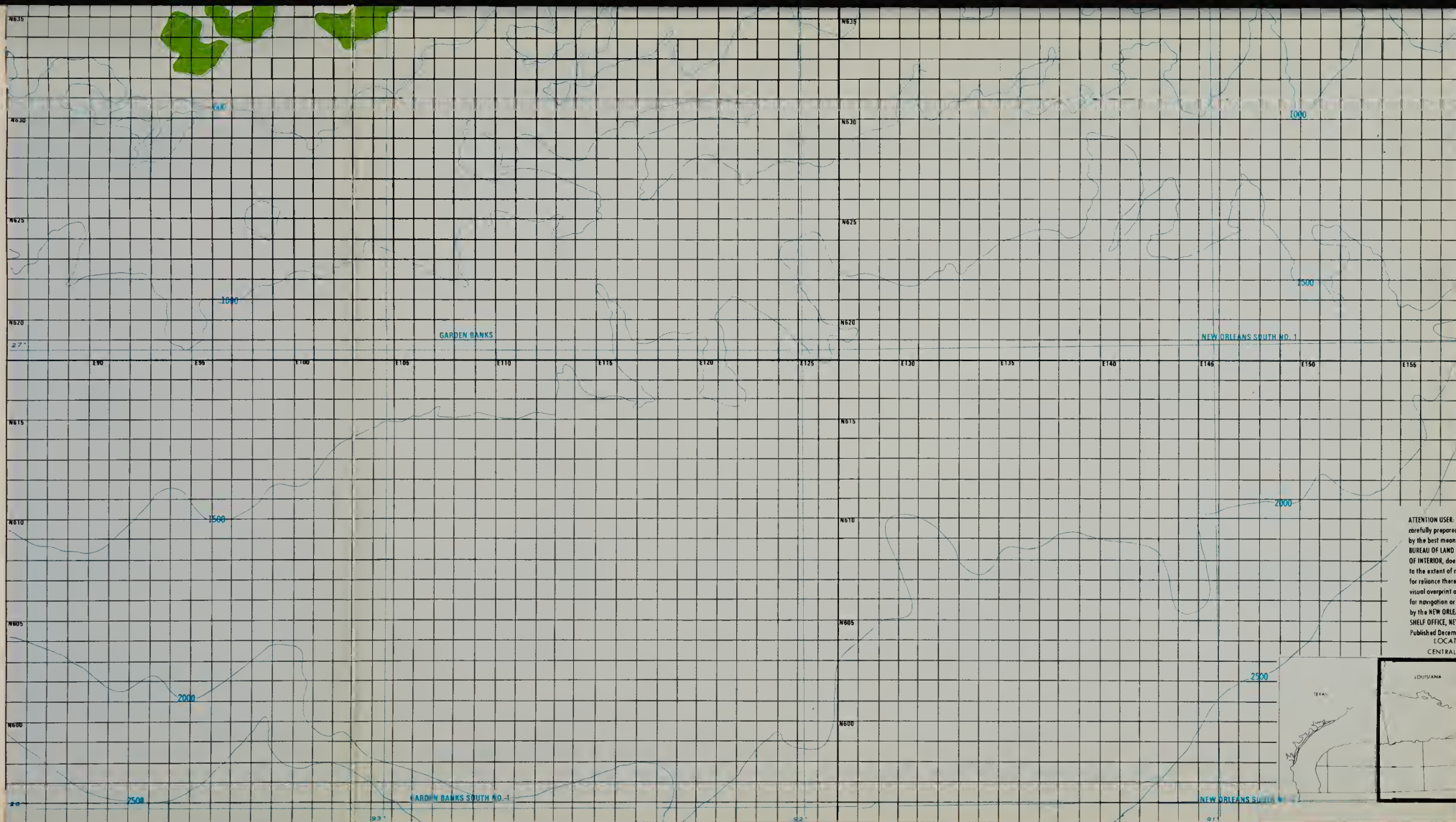




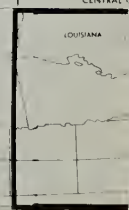






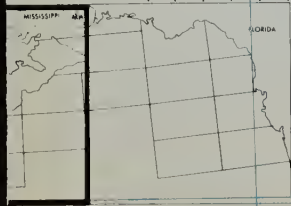


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Published Decemb  
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Prepared in conjunction with proposed  
OCS lease sale no. 41

#### VISUAL NO. 4

- COUNTY BOUNDARIES
- FRESH MARSH
- INTERMEDIATE MARSH
- MARSH (SALINE AND BRACKISH)
- COASTAL STRAND
- OFFSHORE GROUP OF COMMERCIAL BANKS
- OFFSHORE SPORT FISHING AREAS
- MAJOR INSHORE FISHING AREAS

- REPORTED HARD BANKS
- ALLIGATOR DISTRIBUTION  
Coastal wide in Louisiana
- MISSISSIPPI SANDHILL CRANE
- PRIMARY GABBLING DUCK AND FURBEARER HABITAT
- BROWN PELICAN ROOKERY

- WATER DEPTH (METERS)
- SEA BIRD ROOKERIES  
1 Least Tern  
2 Sandwich, Royal and Caspian Tern  
3 Forster's Tern
- WADING BIRD COLONIES (APPROXIMATE)
- LOGGERHEAD TURTLE NESTING
- REO WOLF
- REPORTED ROCKS
- SHIPWRECKS

Bureau of Land Management  
Library  
Denver Service Center













10 0 10 20 30 40 50  
STATUTE MILES



UNITED STATES DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT  
OUTER CONTINENTAL SHELF  
GULF OF MEXICO AND ATLANTIC OCEAN  
GULF OF MEXICO PELAGIC AND INDUSTRIAL FISHERIES

VISUAL NO. 4

SCALE 1:2,160,000

- |   |   |
|---|---|
|  MENHAGEN                        |  TUNA SIGHTINGS APRIL, MAY, JUNE |
|  JACKS AND CHUB MACKEREL         |  SKIPJACK TUNA                   |
|  INDUSTRIAL FISH, WINTER GROUNDS |  BLACKFIN TUNA                   |
|  INDUSTRIAL FISH, SUMMER GROUNDS |  YELLOWFIN TUNA                  |
|  CLUPEOIDS AND ANCHOVY           |  200 METERS                      |
|  BLACK MULLET                    |  1000 FATHOMS                    |

HASKELL, 1961, IWAMOTO, 1965, BOGDANOV, 1969;  
FAO, DEPARTMENT OF FISHERIES, 1971

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UNITED STATES DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT  
OUTER CONTINENTAL SHELF  
GULF OF MEXICO AND ATLANTIC OCEAN  
GULF OF MEXICO PELAGIC AND INDUSTRIAL FISHERIES

VISUAL NO. 4

SCALE 1:2,160,000

- |   |                                 |   |                |
|---|---------------------------------|---|----------------|
|  | MENHADEN                        |  | SKIPJACK TUNA  |
|  | JACKS AND CHUB MACKEREL         |  | BLACKFIN TUNA  |
|  | INDUSTRIAL FISH, WINTER GROUNDS |  | YELLOWFIN TUNA |
|  | INDUSTRIAL FISH, SUMMER GROUNDS |  | 200 METERS     |
|  | CLUPEOIDS AND ANCHOVY           |  | 1000 FATHOMS   |
|  | BLACK MULLET                    |   |                |

HASKELL, 1961; IWAMOTO, 1965; BOGDANOV, 1969;  
FAO, DEPARTMENT OF FISHERIES, 1971

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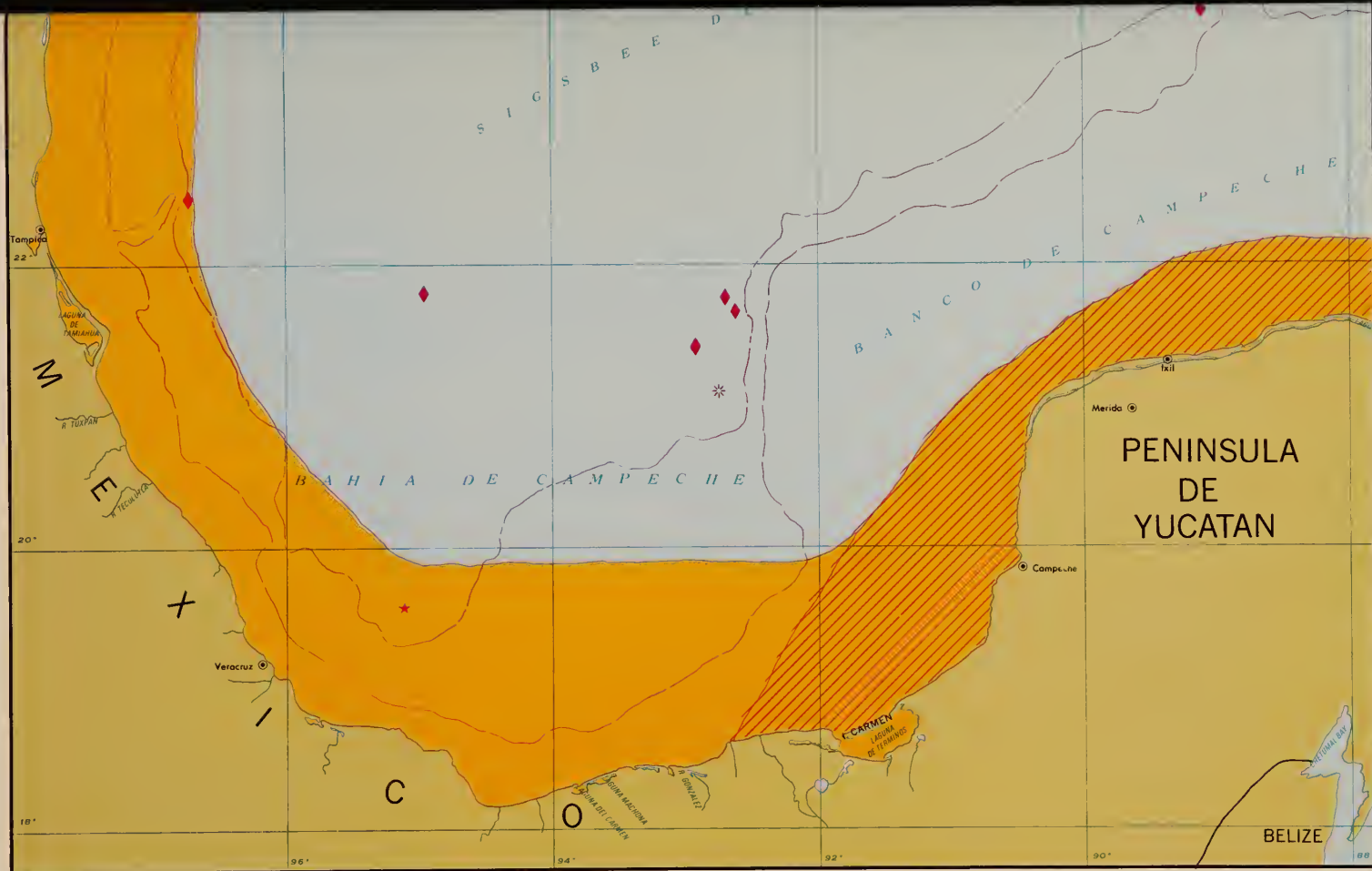
Prepared in conjunction with proposed  
OCS lease sale no. 41

















UNITED STATES DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT  
OUTER CONTINENTAL SHELF  
GULF OF MEXICO AND ATLANTIC OCEAN  
GULF OF MEXICO PENAEID SHRIMPS

VISUAL NO. 5

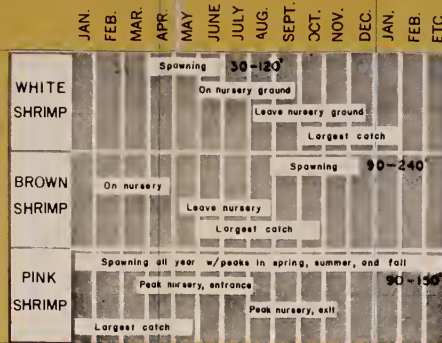
SCALE 1:2,160,000

- MAIN FISHING GROUNDS
- BROWN SHRIMP
  - WHITE SHRIMP
  - PINK SHRIMP
  - MIGRATION OF LARVAE
  - MIGRATION OF JUVENILES

200 METERS

FAO, DEPARTMENT OF FISHERIES, 1971  
NOAA, NMFS, 1960-1974

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BLM Library  
Denver Federal Center  
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P.O. Box 25047  
Denver, CO 80225



Species variations on the biological life cycle.  
(Source: After Knoph 1970)





UNITED STATES DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT  
OUTER CONTINENTAL SHELF  
GULF OF MEXICO AND ATLANTIC OCEAN  
GULF OF MEXICO PENAEID SHRIMPS

VISUAL NO.5

SCALE 1:2,160,000

## MAIN FISHING GROUNDS



## BROWN SHRIMP



## WHITE SHRIMP



## PINK SHRIMP



### MIGRATION OF LARVAE



## MIGRATION OF JUVENILES

## 200 METERS

FAO, DEPARTMENT OF FISHERIES, 1971  
NOOA, NMFS, 1960 - 1974

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OCS lease sale no. 41











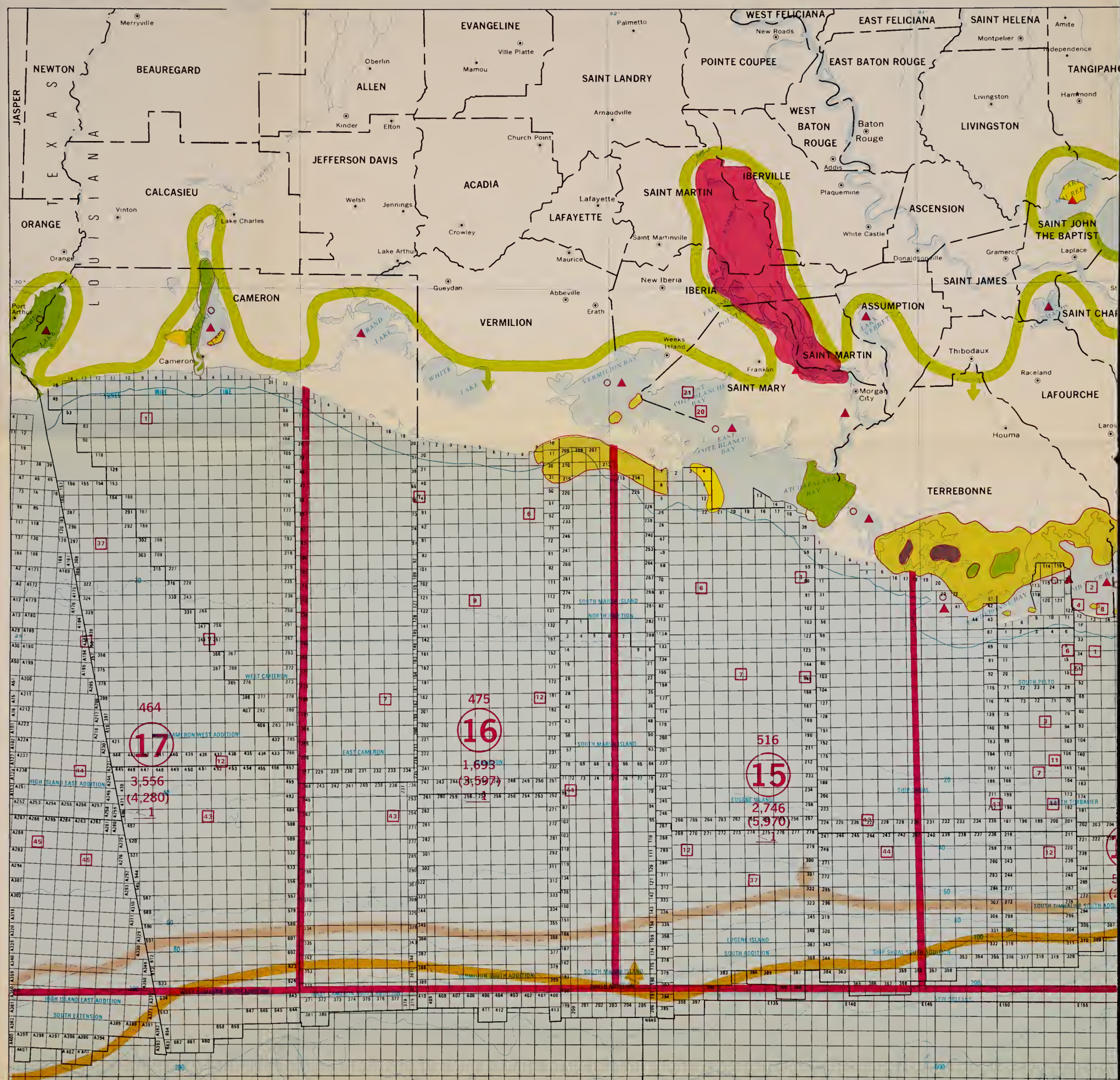




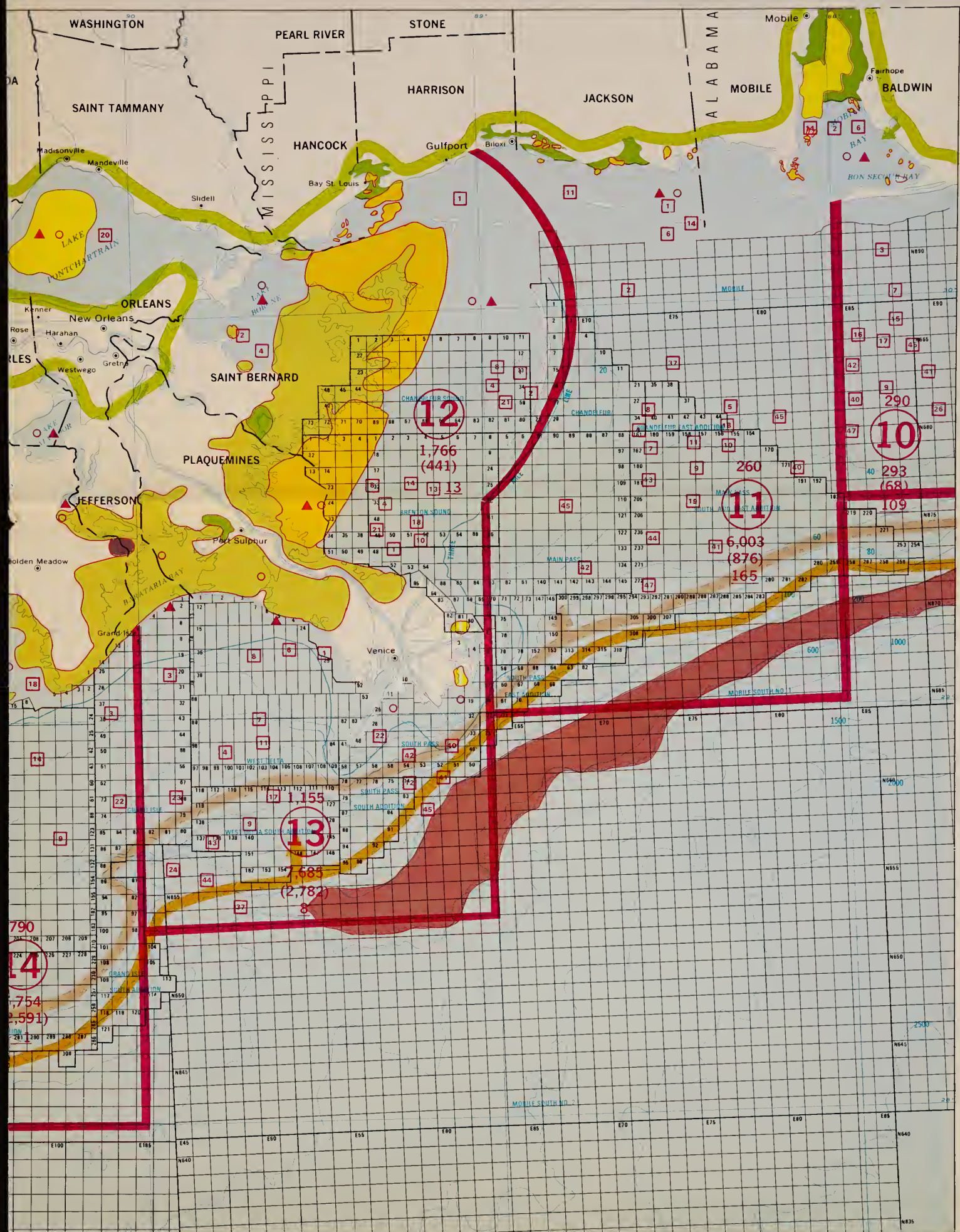




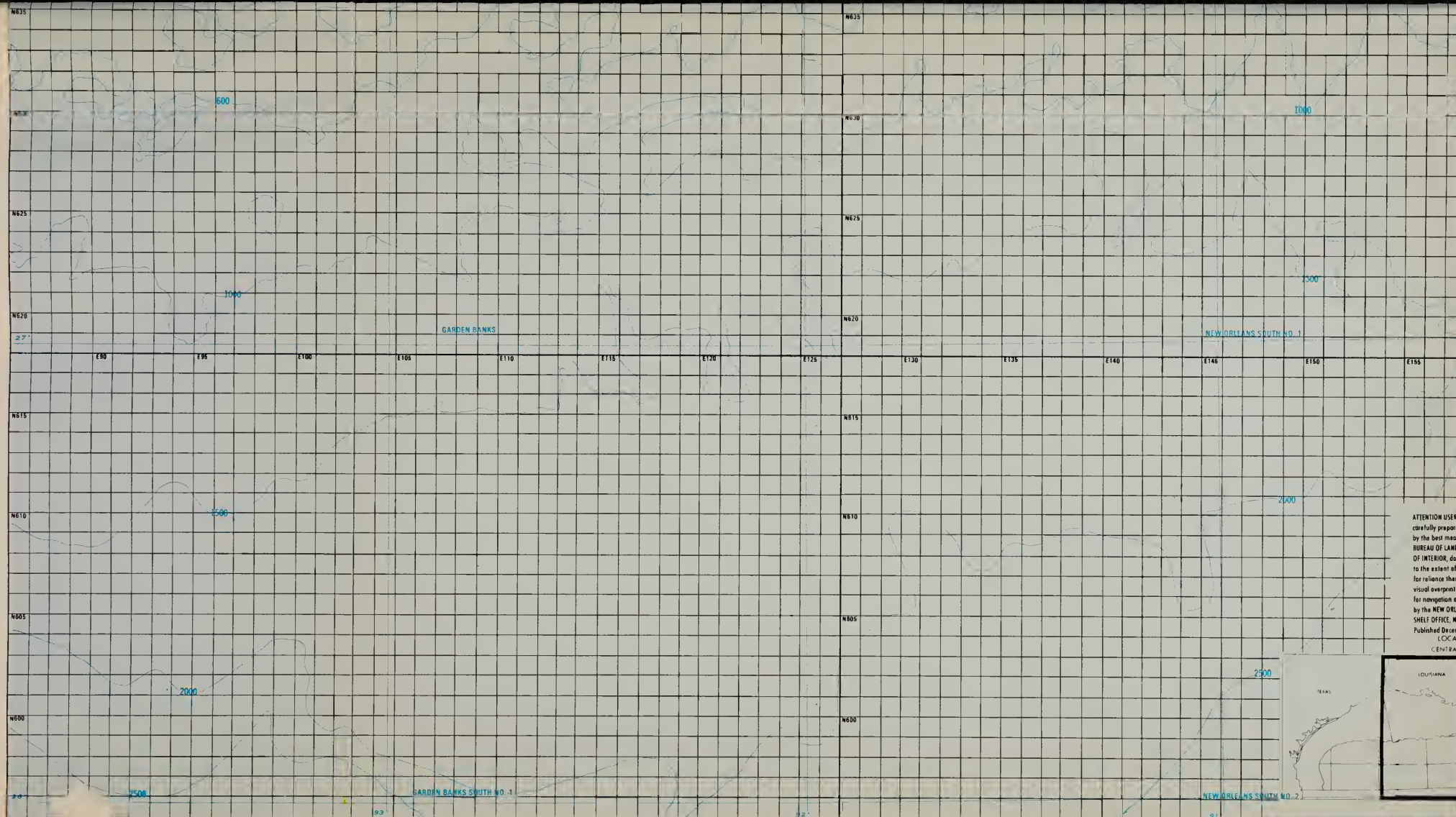




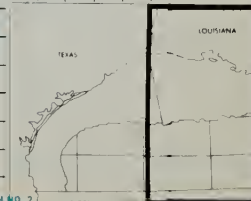








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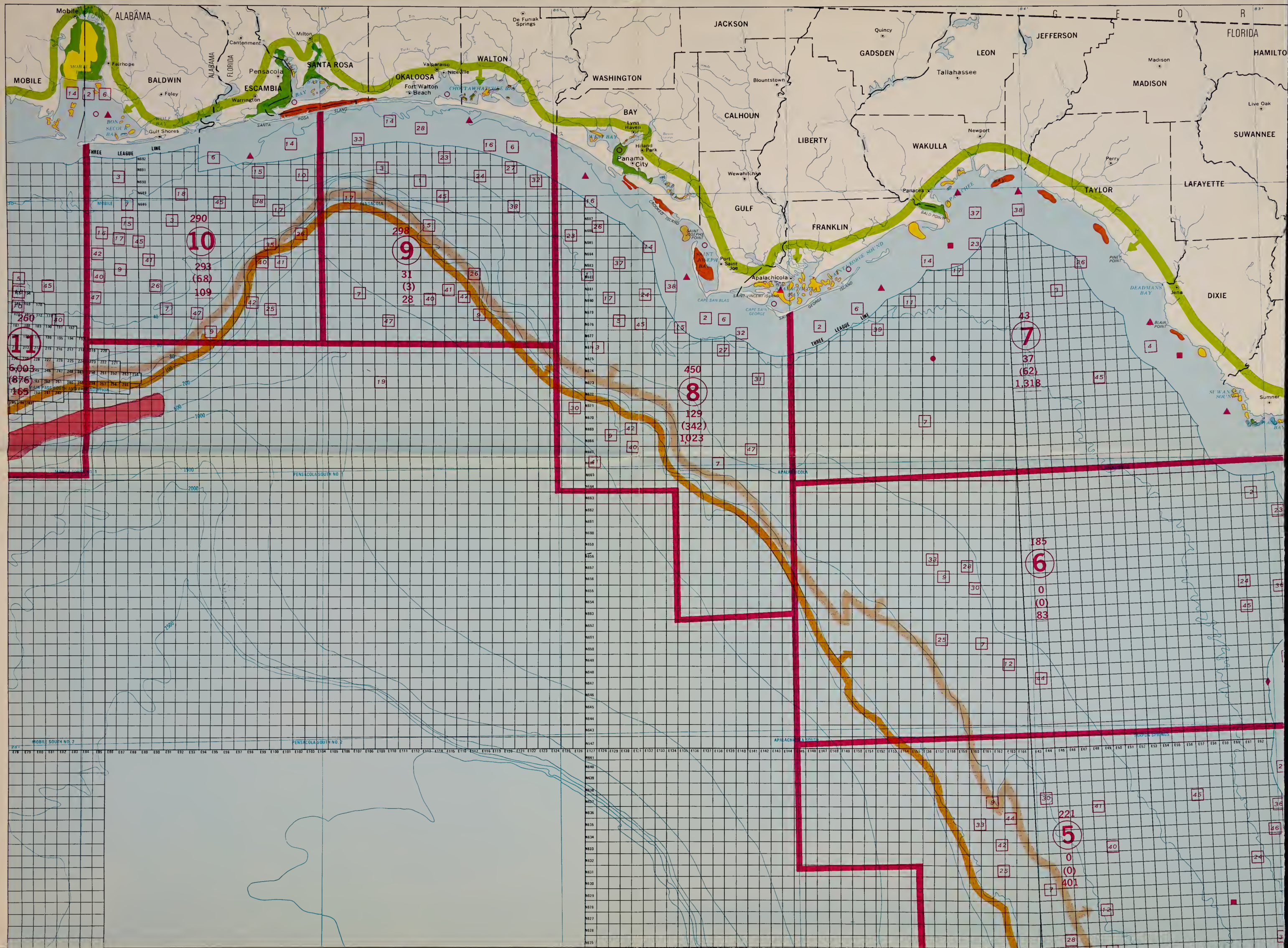




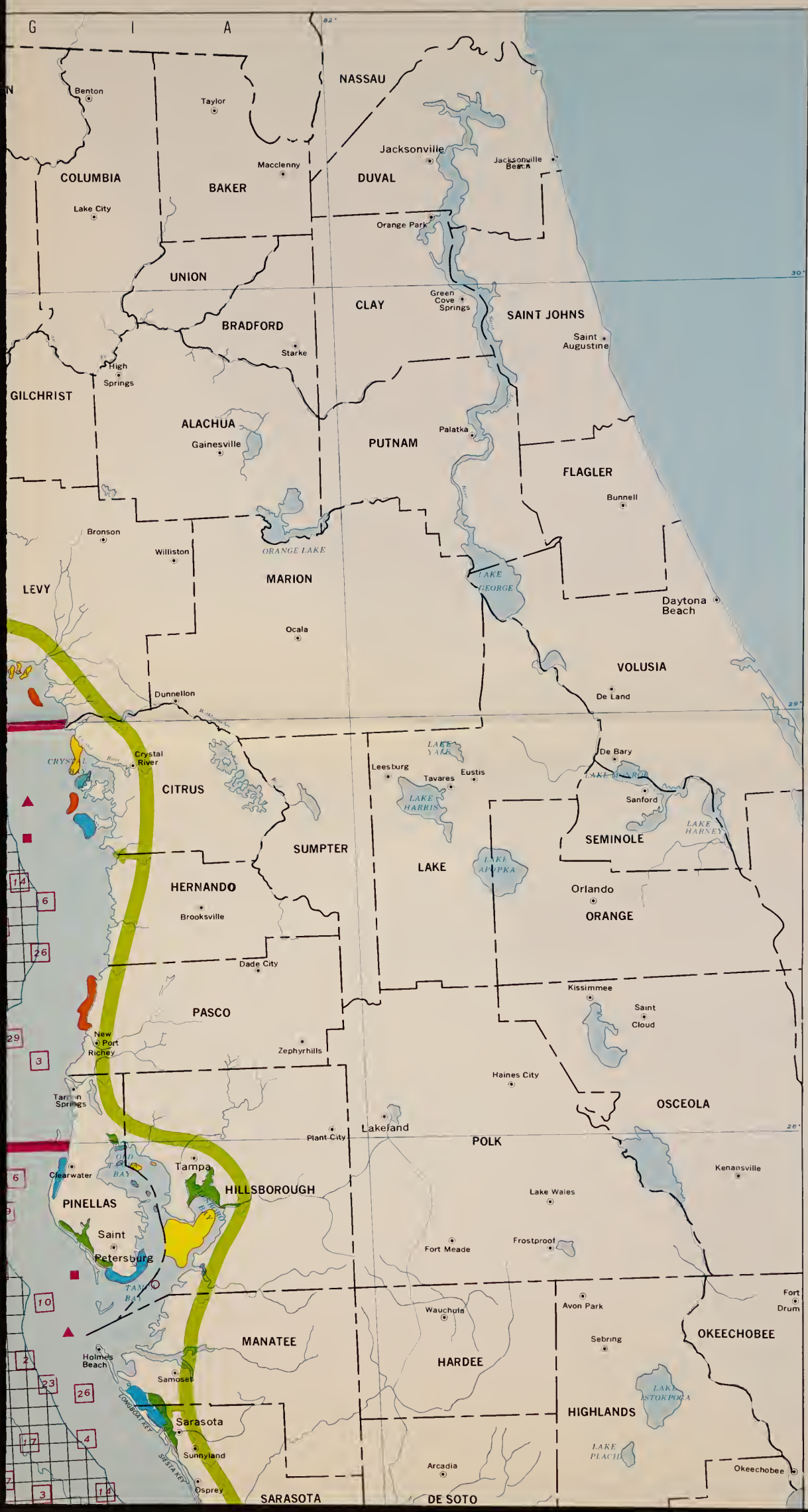




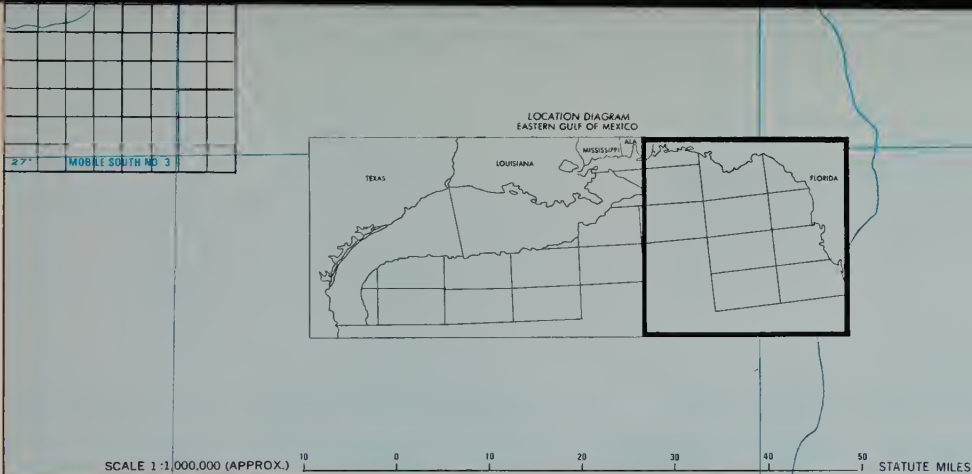












UNITED STATES DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT

OUTER CONTINENTAL SHELF  
EASTERN GULF OF MEXICO

COASTAL ZONE AND  
OFFSHORE FISHERIES

VISUAL NO. 5

- COUNTY BOUNDARIES
- PRINCIPAL INSHORE HARVEST AND ESTUARINE NURSERY BOUNDARIES
- GRID DESIGNATIONS
- MAJOR SHRIMP HARVEST AREA
- MAJOR FINFISH HARVEST AREA
- OYSTER GROUNDS PUBLIC
- PRIVATE
- CLOSED
- SUNRAY VENUS CLAM
- ROYAL RED SHRIMP GROUNDS
- BAY SCALLOPS

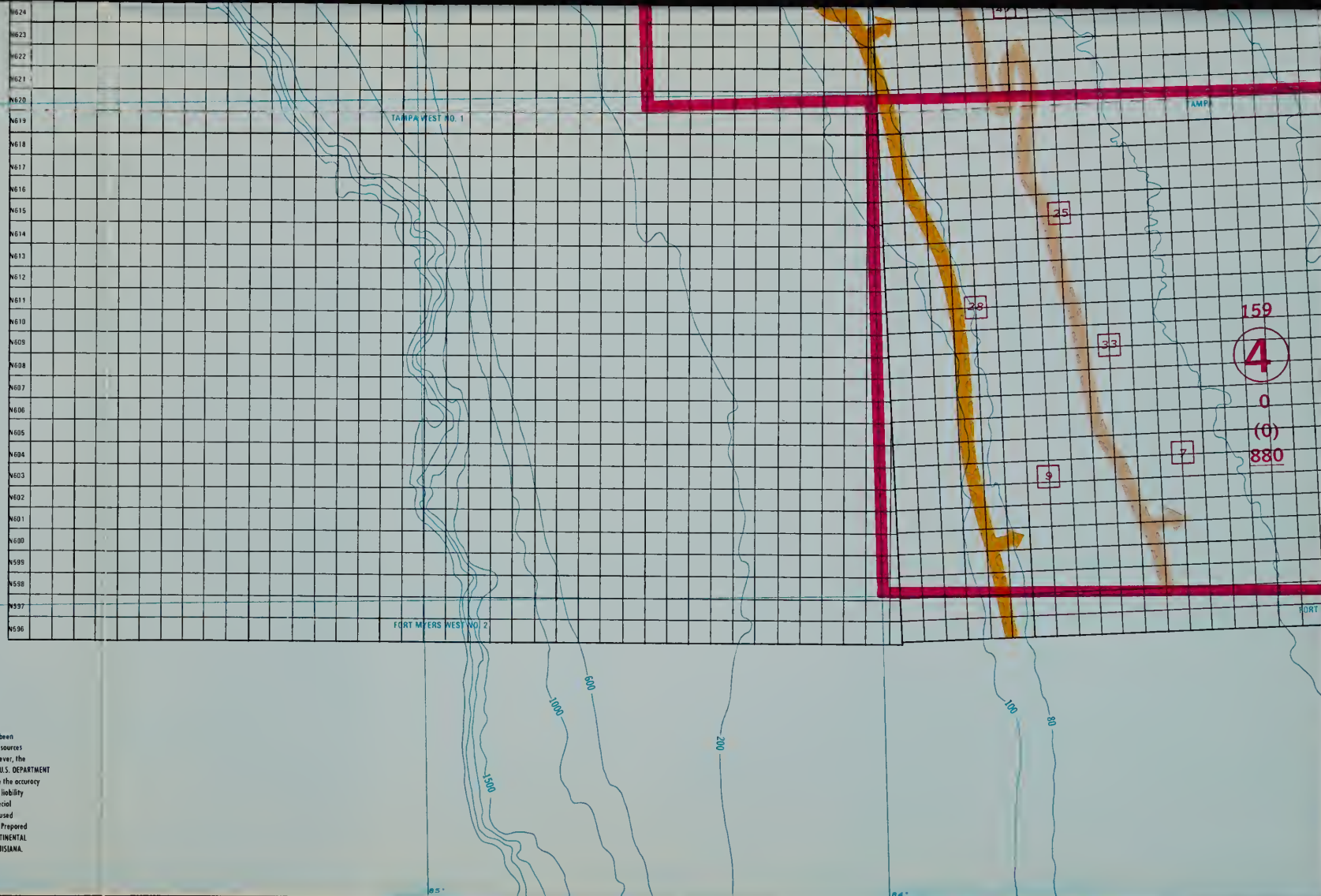
- GRID NUMBER FOR FISHING ZONES
- RED SNAPPER CATCH (Average of 1971 and 1972 by Offshore Grid Zone in Thousand of Pounds)
- TOTAL CATCH SHRIMP (Average of 1972 and 1973 by Offshore Grid Zone for Brown, White, and Pink Shrimp in Thousands of Pounds)
- BROWN
- WHITE
- PINK
- BLUE CRABS
- STONE CRABS
- SQUID
- INSHORE SHRIMP AREAS
- SPINY LOBSTER
- SPONGES

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- WATER DEPTH (METERS)
- FISHES
 

1 Menhaden	23 Crevalle Jacks
2 Spotted Seatrout	24 King Mackerel
3 Croaker	25 Mangrove Snapper
4 Red Drum (Redfish)	26 Bonito
5 Sea Catfish	27 Cigarfish
6 Flounder	28 Yellowtail Snapper
7 Groupers	29 Grunts
8 Black Drum	30 Vermilion Snapper
9 Red Snapper	31 Spanish Sardines
10 Sheepshead	32 Thread Herring
11 King Whiting	33 Mutton Snapper
12 Jewfish	34 Sand Parrot (Mourra)
13 Cobia (Cable)	35 Triggerfish
14 Mullet	36 Sea Bass
15 Bluefish	37 Tarpon
16 Blue Runner	38 Tenpounder (Ladyfish)
17 Spanish Mackerel	39 Spots
18 White Seatrout	40 Blue Marlin
19 Swordfish	41 White Marlin
20 Catfish and Bullheads	42 Sailfin
21 Garfish	43 Barracuda
22 Pompano	44 Amberjack
	45 Dolphin
	46 Snook
	47 Tuna
- SHELL DREDGING
- MAJOR CLAM HARVEST AREAS

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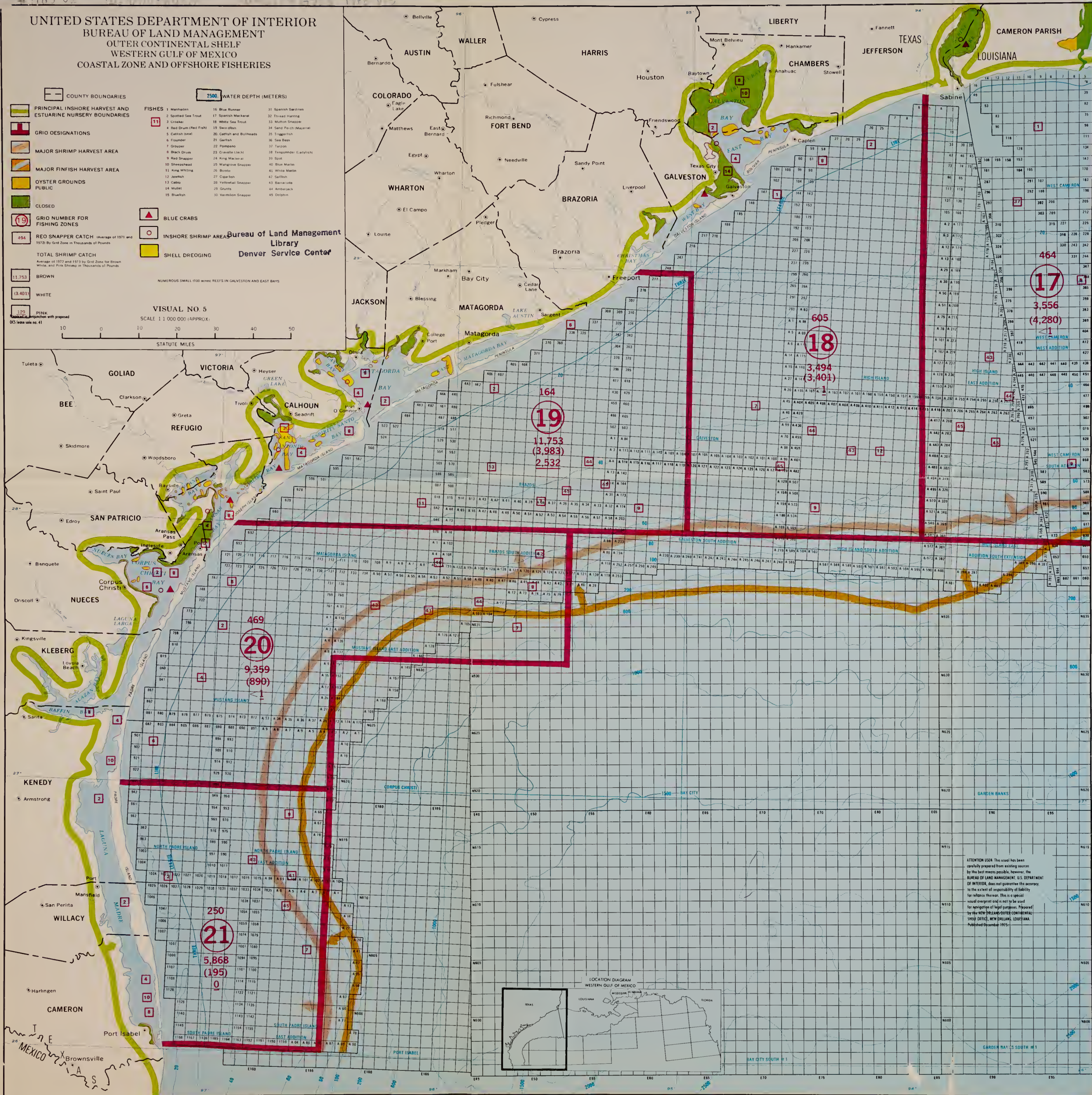
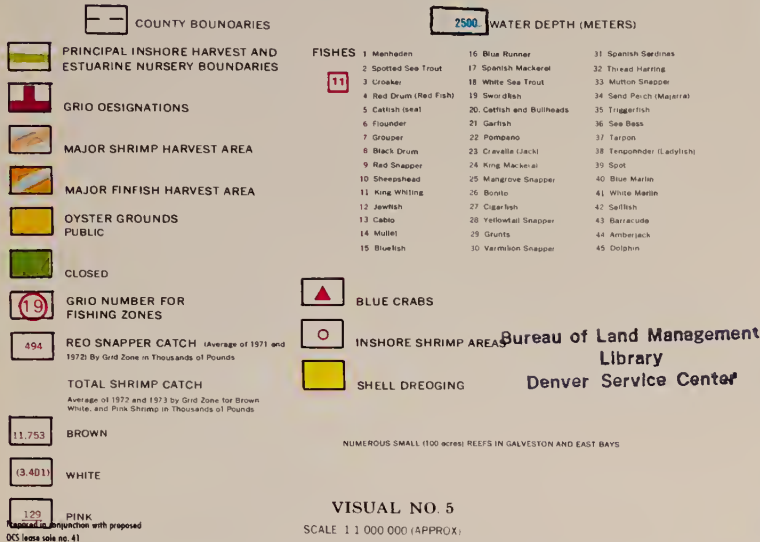
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UNITED STATES DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT  
OUTER CONTINENTAL SHELF  
WESTERN GULF OF MEXICO  
COASTAL ZONE AND OFFSHORE FISHERIES



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
# UNITED STATES DEPARTMENT OF INTERIOR


## BUREAU OF LAND MANAGEMENT

### OUTER CONTINENTAL SHELF

### WESTERN GULF OF MEXICO

### COASTAL ZONE AND OFFSHORE FISHERIES

 COUNTY BOUNDARIES


 PRINCIPAL INSHORE HARVEST AND ESTUARINE NURSERY BOUNDARIES

 GRID DESIGNATIONS

 MAJOR SHRIMP HARVEST AREA

 MAJOR FINFISH HARVEST AREA

 OYSTER GROUNDS PUBLIC

 CLOSED

 GRID NUMBER FOR FISHING ZONES

 RED SNAPPER CATCH (Average of 1971 and 1972) By Grid Zone in Thousands of Pounds

TOTAL SHRIMP CATCH

Average of 1972 and 1973 by Grid Zone for Brown, White, and Pink Shrimp in Thousands of Pounds

 BROWN

 WHITE

 PINK  
Reported in conjunction with proposed OCS lease sale no. 41

#### FISHES

- |                        |                           |                           |
|------------------------|---------------------------|---------------------------|
| 1. Menhaden            | 16 Blue Runner            | 31. Spanish Sardines      |
| 2. Spotted Sea Trout   | 17. Spanish Mackerel      | 32. Thread Herring        |
| 3. Croaker             | 18. White Sea Trout       | 33. Mutton Snapper        |
| 4. Red Drum (Red Fish) | 19. Swordfish             | 34. Sand Perch (Majarra)  |
| 5. Catfish (sea)       | 20. Catfish and Bullheads | 35. Triggerfish           |
| 6. Flounder            | 21. Garfish               | 36. Sea Bass              |
| 7. Grouper             | 22. Pompano               | 37. Tarpon                |
| 8. Black Drum          | 23. Crevalle (Jack)       | 38. Tenponnder (Ladyfish) |
| 9. Red Snapper         | 24. King Mackerel         | 39. Spot                  |
| 10. Sheephead          | 25. Mangrove Snapper      | 40. Blue Marlin           |
| 11. King Whiting       | 26. Bonito                | 41. White Marlin          |
| 12. Jewfish            | 27. Cigarfish             | 42. Sailfish              |
| 13. Cabio              | 28. Yellowtail Snapper    | 43. Barracuda             |
| 14. Mullet             | 29. Grunts                | 44. Amberjack             |
| 15. Bluefish           | 30. Vermilion Snapper     | 45. Dolphin               |

 BLUE CRABS

 INSHORE SHRIMP AREAS

 SHELL DREDGING

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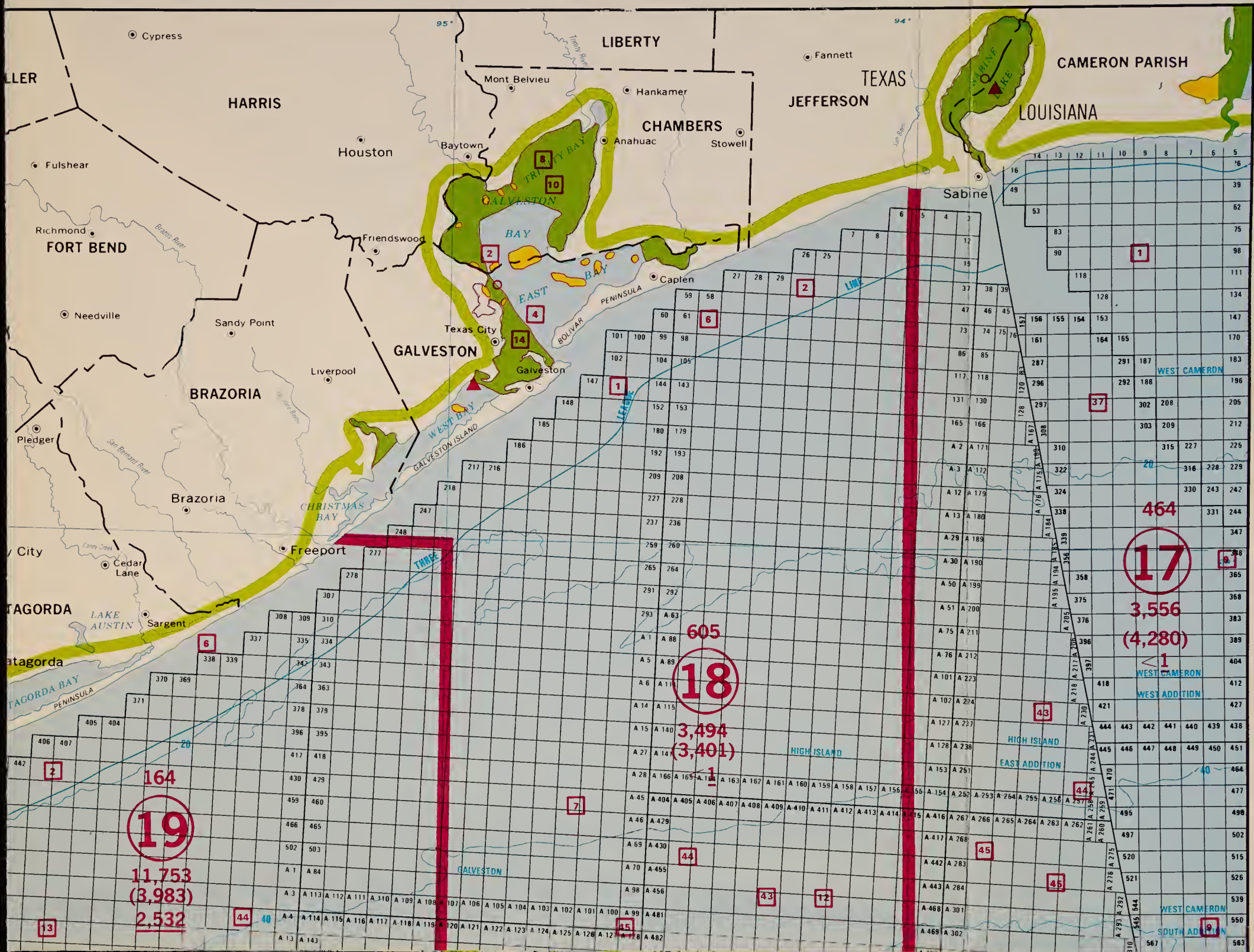
NUMEROUS SMALL (100 acres) REEFS IN GALVESTON AND EAST BAYS

VISUAL NO. 5

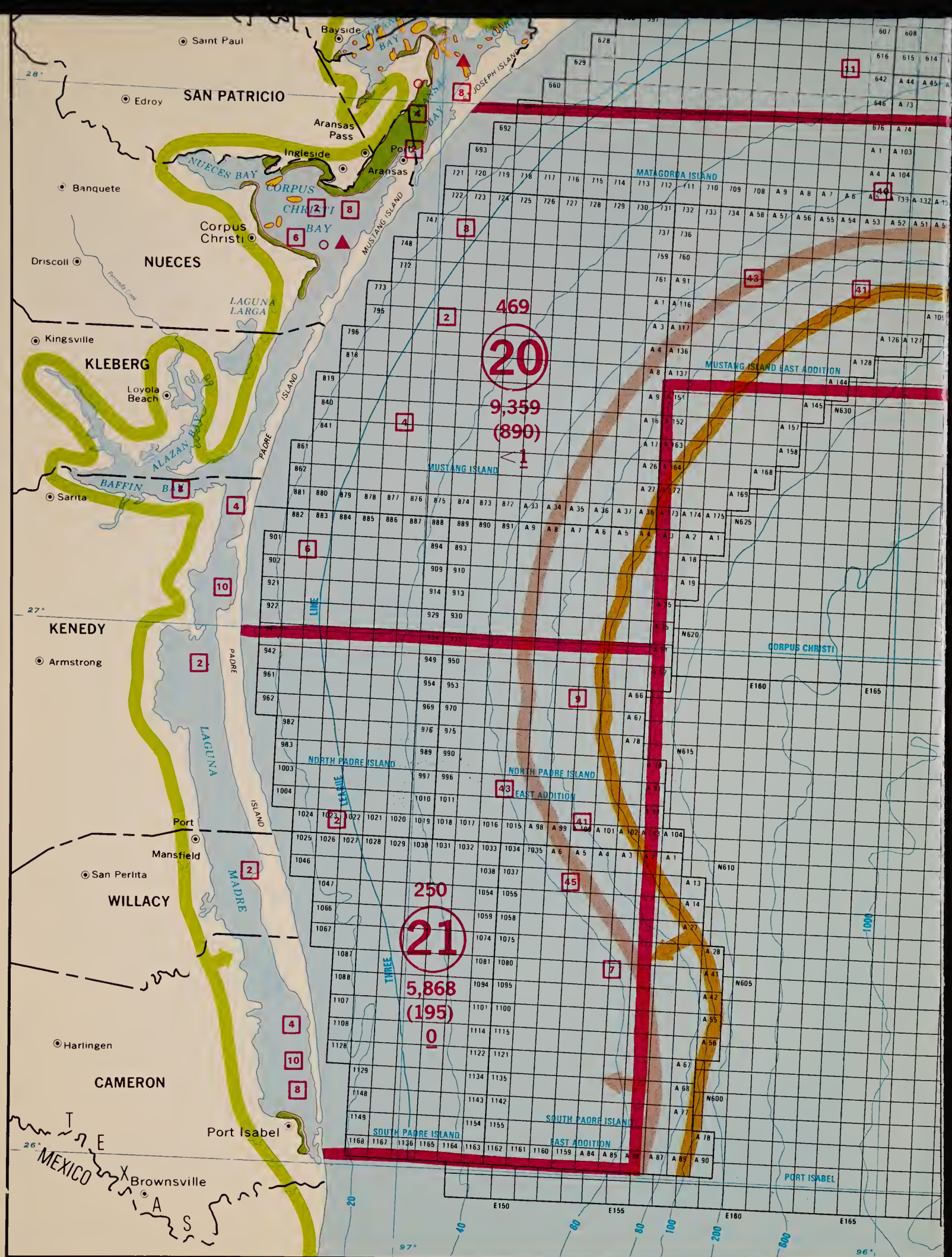
SCALE 1:1,000,000 (APPROX)



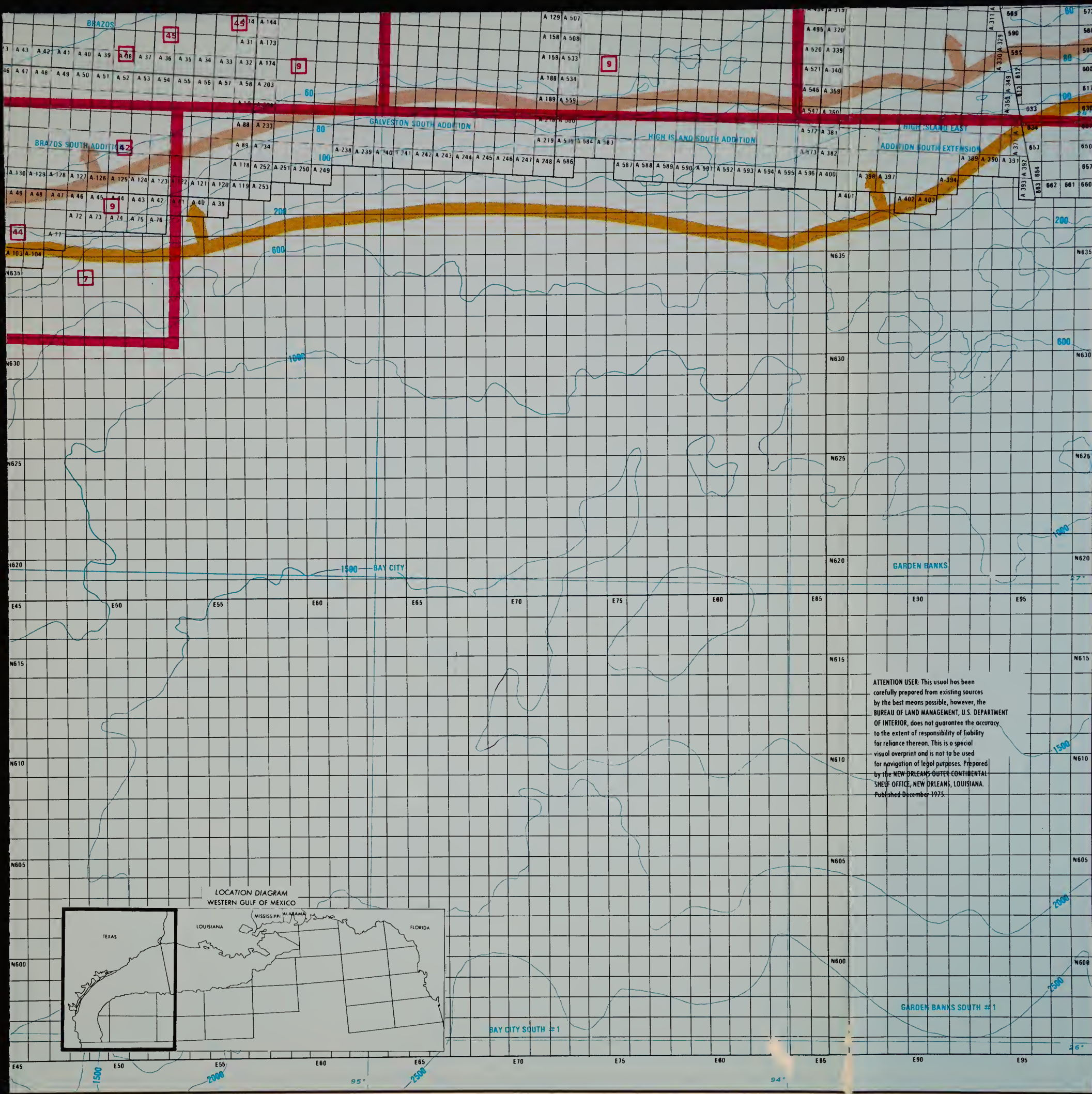






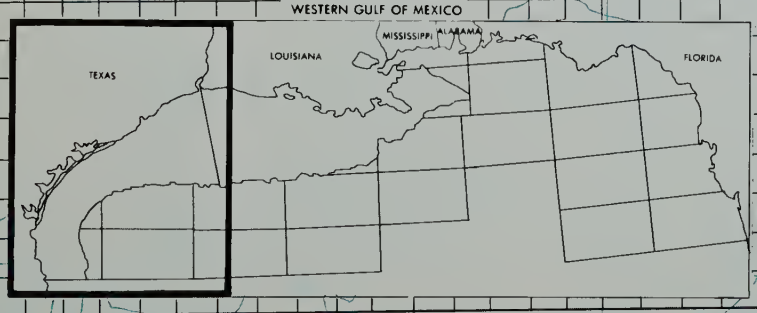






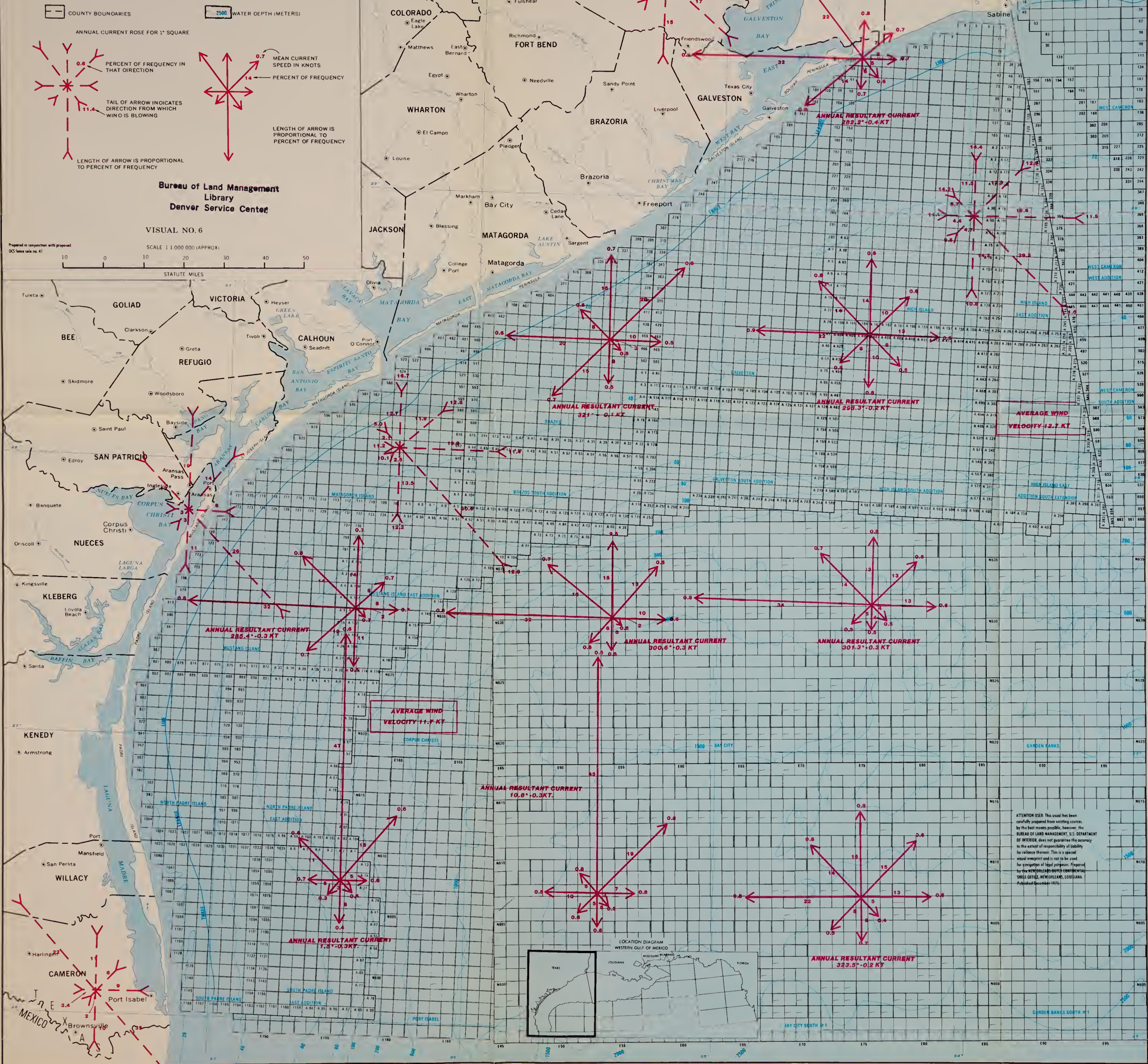
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LOCATION DIAGRAM  
WESTERN GULF OF MEXICO





UNITED STATES DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT  
OUTER CONTINENTAL SHELF  
WESTERN GULF OF MEXICO  
SURFACE CURRENTS





#4795702

ID: 98076013

TD195.P4 6855 1976 v.13

UNITED STATES DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT  
OUTER CONTINENTAL SHELF  
WESTERN GULF OF MEXICO  
SURFACE CURRENTS

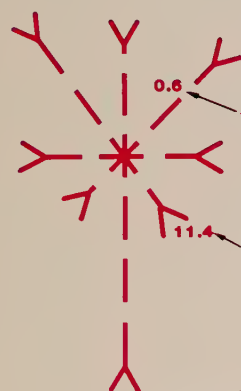


COUNTY BOUNDARIES



2500 WATER DEPTH (METERS)

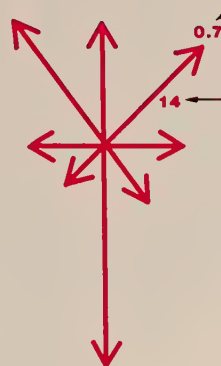
ANNUAL CURRENT ROSE FOR 1° SQUARE



PERCENT OF FREQUENCY IN THAT DIRECTION

TAIL OF ARROW INDICATES DIRECTION FROM WHICH WIND IS BLOWING

LENGTH OF ARROW IS PROPORTIONAL TO PERCENT OF FREQUENCY



MEAN CURRENT SPEED IN KNOTS

PERCENT OF FREQUENCY

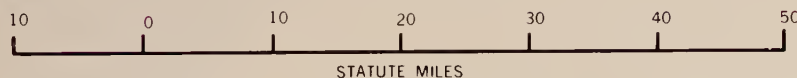
LENGTH OF ARROW IS PROPORTIONAL TO PERCENT OF FREQUENCY

Bureau of Land Management  
Library  
Denver Service Center

VISUAL NO. 6

Prepared in conjunction with proposed  
OCS lease sale no. 41

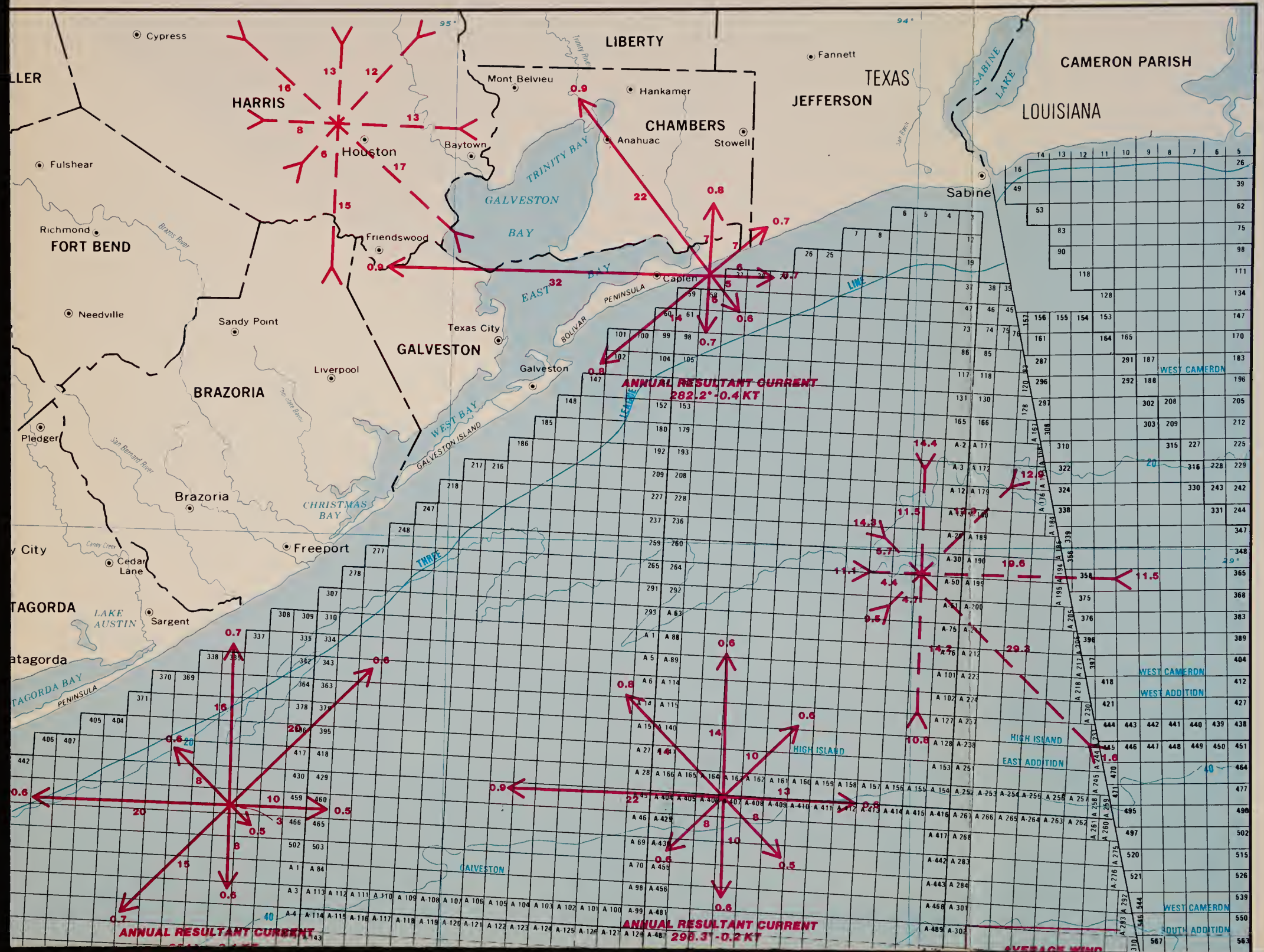
SCALE 1:1,000,000 (APPROX)



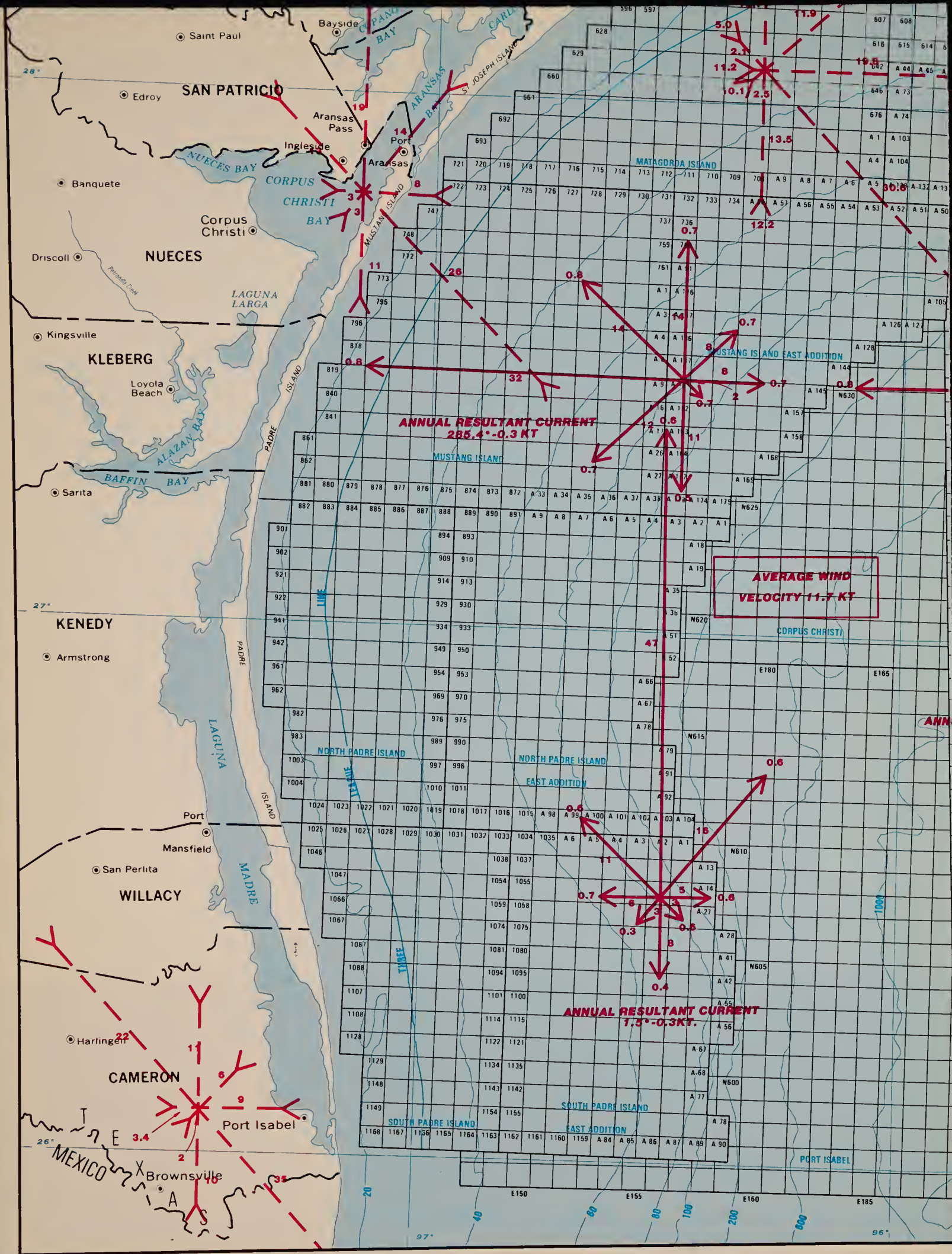
STATUTE MILES



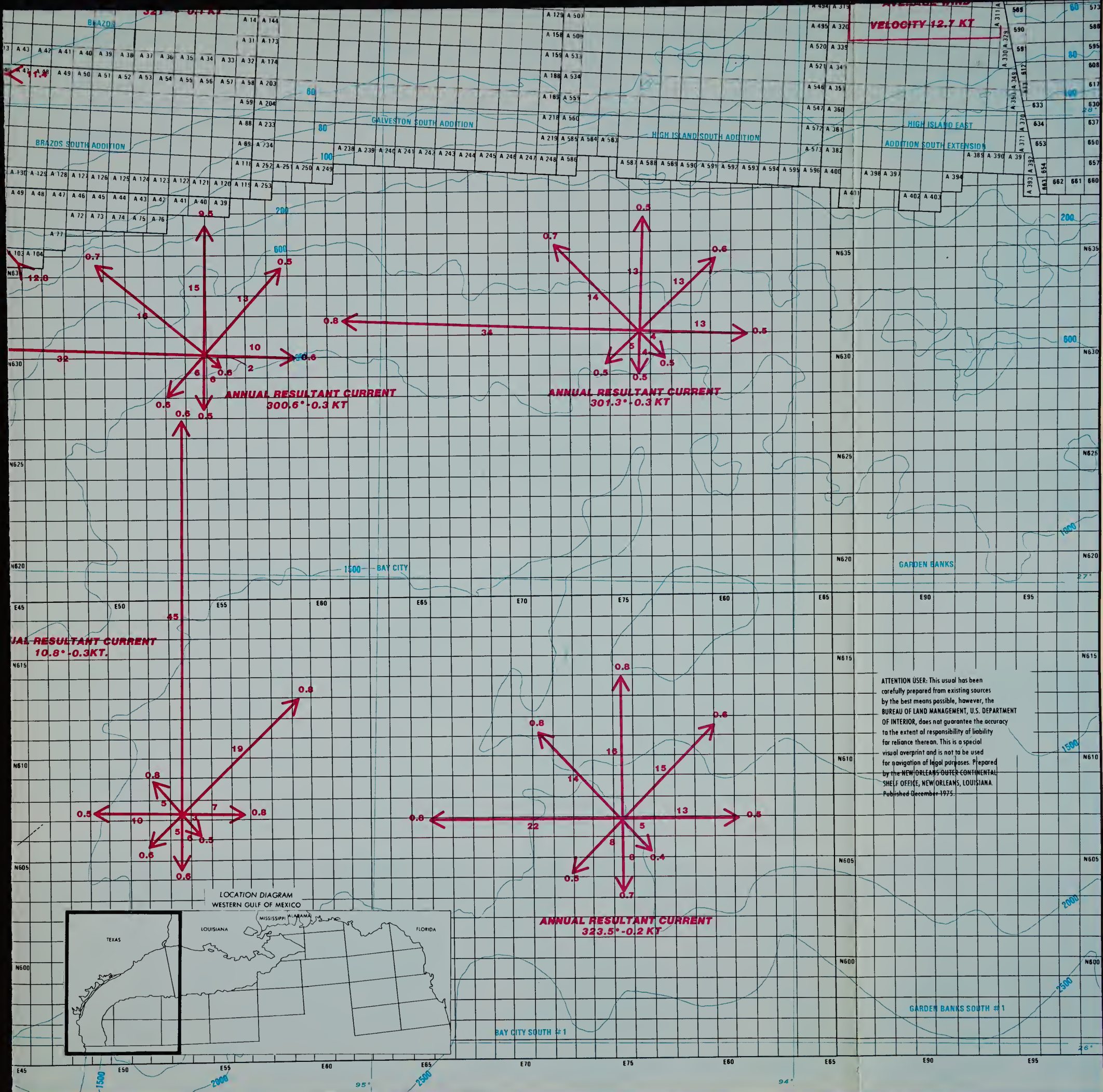




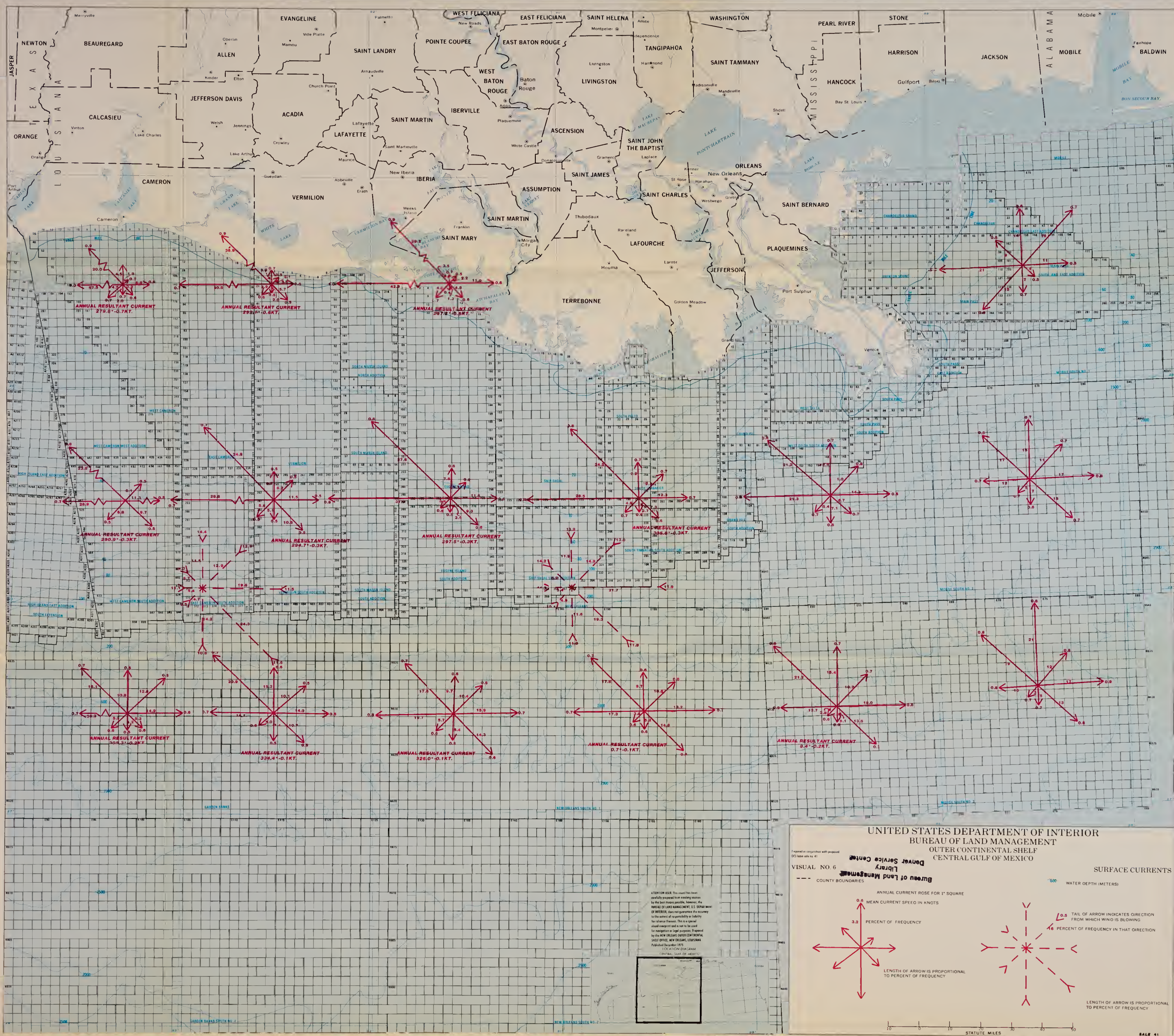












UNITED STATES DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT  
OUTER CONTINENTAL SHELF  
CENTRAL GULF OF MEXICO

**Visual No. 6**  
Library Service Center  
Bureau of Land Management

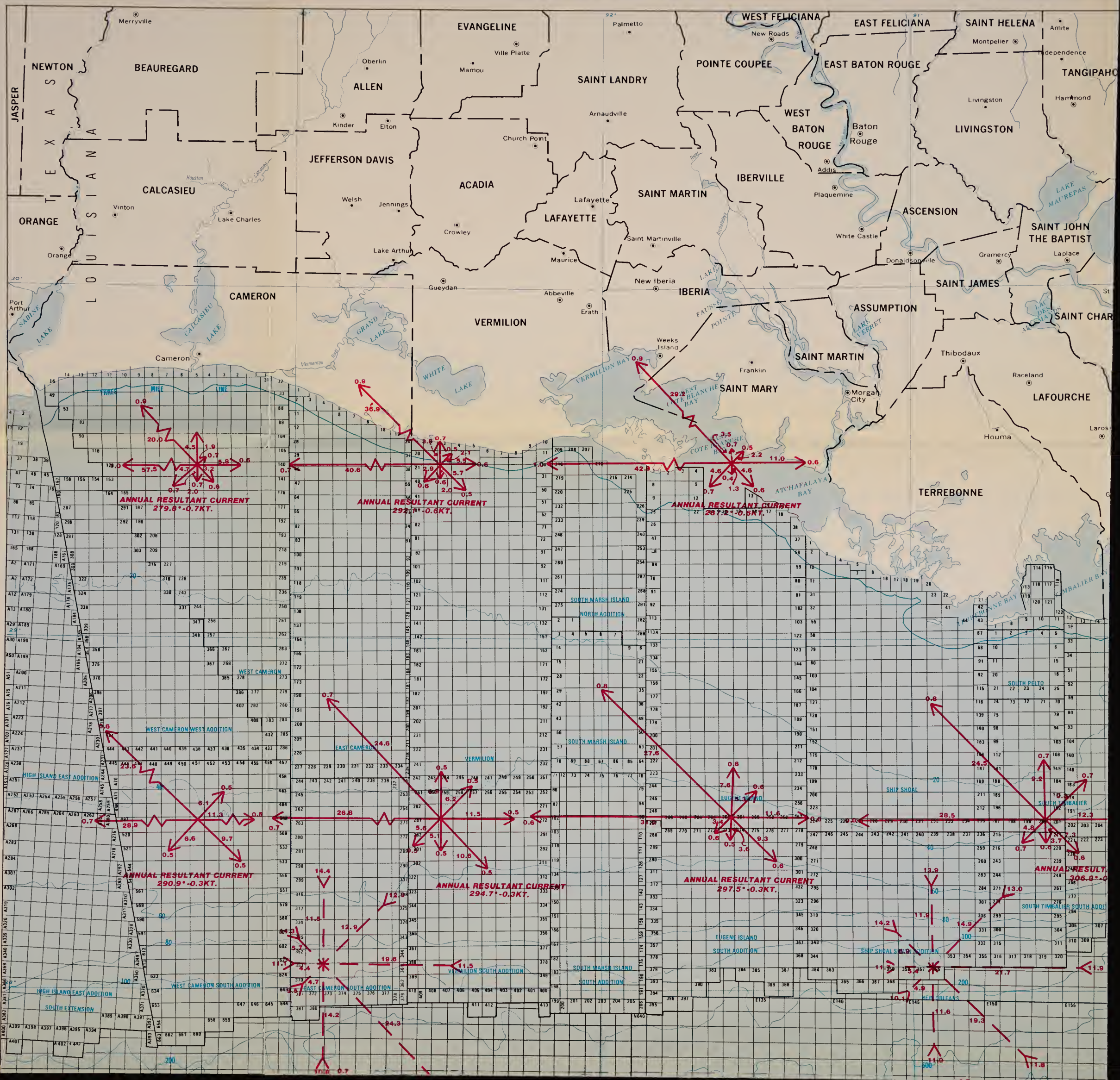
**SURFACE CURRENTS**

ANNUAL CURRENT ROSE FOR 1' SQUARE  
MEAN CURRENT SPEED IN KNOTS  
PERCENT OF FREQUENCY  
TAIL OF ARROW INDICATES DIRECTION FROM WHICH WIND IS BLOWING  
PERCENT OF FREQUENCY IN THAT DIRECTION  
LENGTH OF ARROW IS PROPORTIONAL TO PERCENT OF FREQUENCY

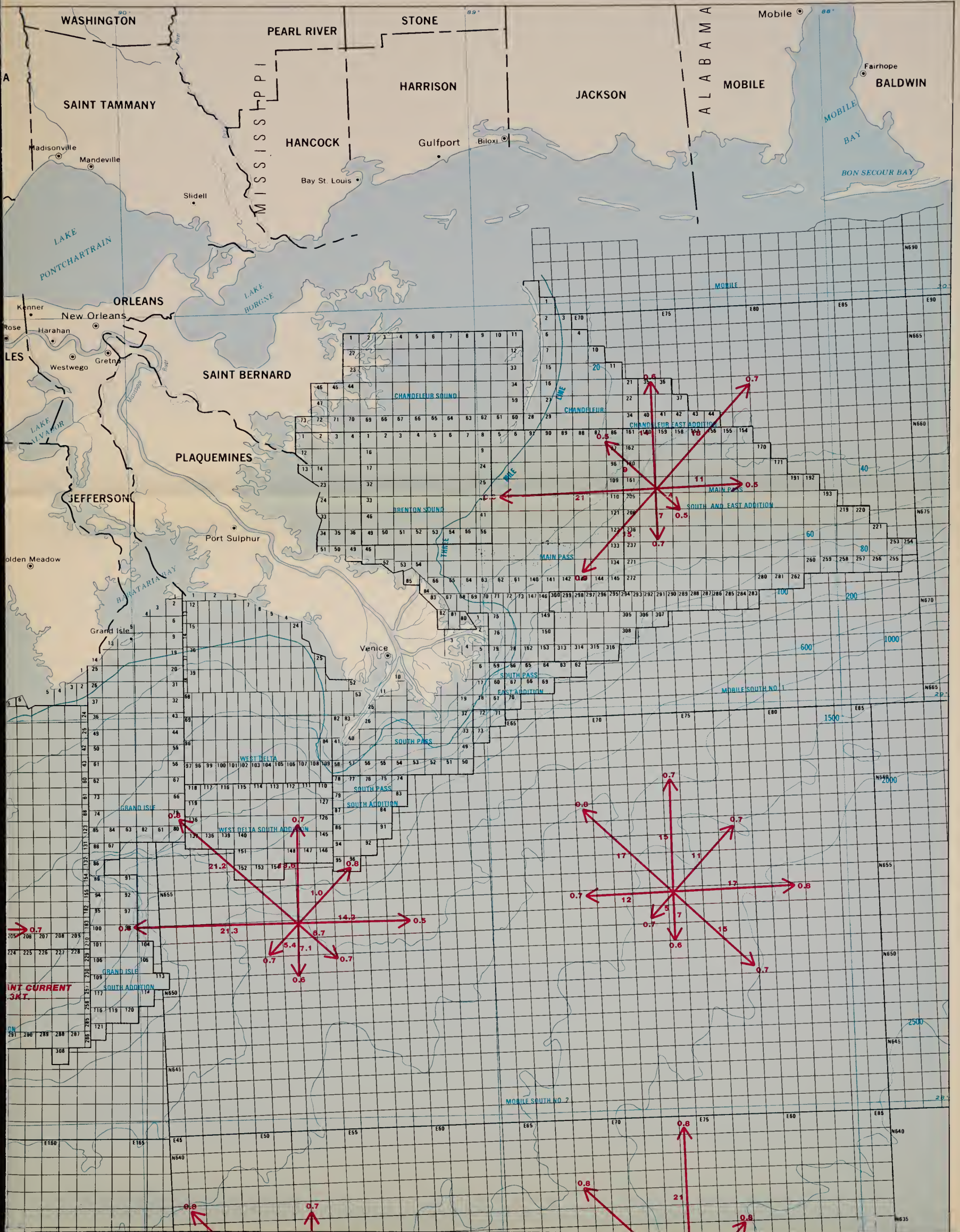
WATER DEPTH (METERS)  
STATUTE MILES  
SCALE 4:1

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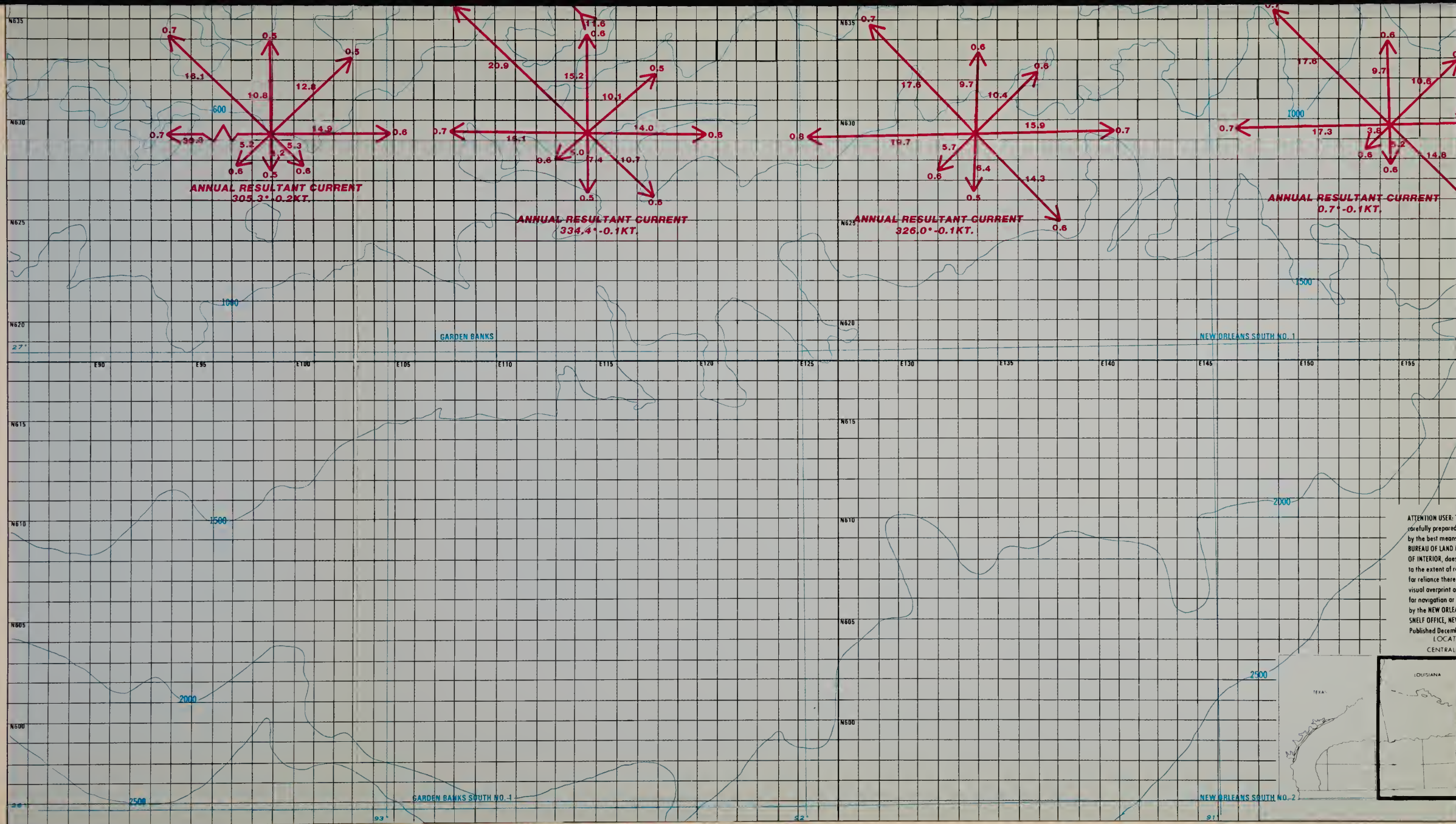






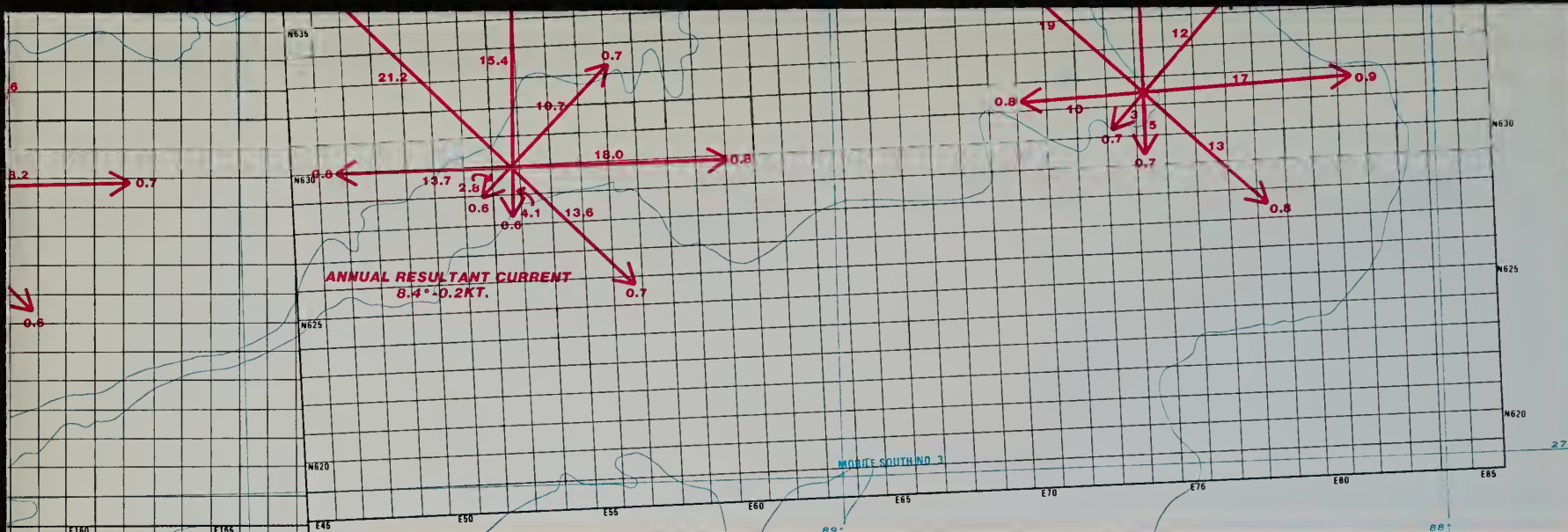






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UNITED STATES DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT  
OUTER CONTINENTAL SHELF  
CENTRAL GULF OF MEXICO

Prepared in conjunction with proposed  
DCS lease sale no. 41

VISUAL NO. 6

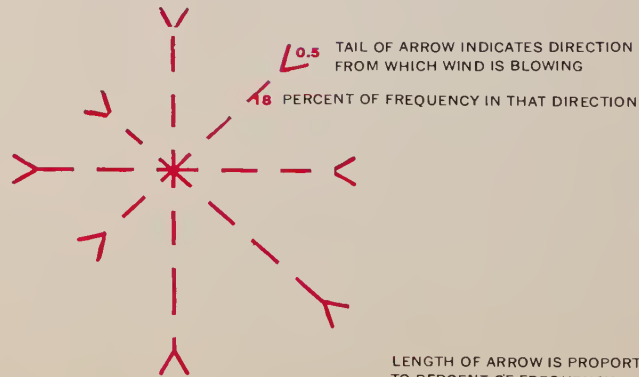
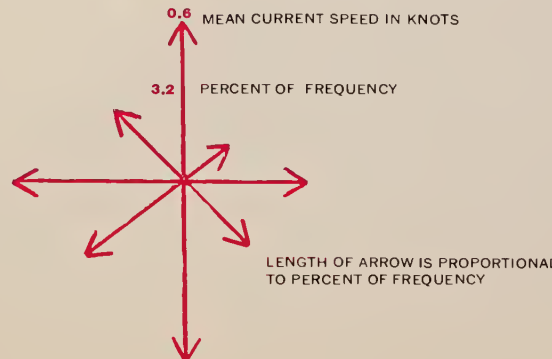
Bureau of Land Management  
Library  
Denver Service Center

--- COUNTY BOUNDARIES

SURFACE CURRENTS

600 WATER DEPTH (METERS)

ANNUAL CURRENT ROSE FOR 1" SQUARE



10 0 10 20 30 40 50  
STATUTE MILES

SALE 41

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UNITED STATES DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT  
OUTER CONTINENTAL SHELF  
GULF OF MEXICO AND ATLANTIC OCEAN  
TRANSPORTATION AND COASTAL REFINING CENTERS

VISUAL NO. 6

SCALE 1:2,160,000



Corpus Christi - 344,686	Port Arthur - 1,188,000	Meraux - 92,500
Sweeny - 85,000	Port Neches - 47,000	Venice - 28,700
Baytown - 500,000	Beaumont - 335,000	Belle Chasse - 180,400
Houston - 288,410	Lake Charles - 268,000	Purvis - 28,500
Alvin - 8,500	Jennings - 4,000	Lumberton - 5,500
Texas City - 470,200	Egan - 15,000	Sandersville - 11,000
Pasadena - 100,000	Church Point - 3,500	Yazoo City - 4,500
Winnie - 9,400	St. James - 11,000	Pascagoula - 240,000
Deer Park - 294,000	Norco - 240,000	Theodore - 17,500
Silsbee - 29,600	Baton Rouge - 458,000	St. Marks - 5,000
Nederland - 116,000	Chalmette - 97,500	Savannah - 12,000
	Convent - 140,000	

Bureau of Land Management  
Library  
Denver Service Center

ONLY SEGMENTS OF HIGHWAYS AND RAILROADS  
NEAR PRINCIPAL PORTS ARE SHOWN.





UNITED STATES DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT  
OUTER CONTINENTAL SHELF  
GULF OF MEXICO AND ATLANTIC OCEAN  
TRANSPORTATION AND COASTAL REFINING CENTERS

VISUAL NO. 6

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Corpus Christi - 344,686  
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 Port Neches - 47,000  
 Beaumont - 335,000  
 Lake Charles - 268,000  
 Jennings - 4,000  
 Egan - 15,000  
 Church Point - 3,500  
 St. James - 11,000  
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 Baton Rouge - 458,000  
 Chalmette - 97,500  
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Meraux - 92,500  
 Venice - 28,700  
 Belle Chasse - 180,400  
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 Lumberton - 5,500  
 Sandersville - 11,000  
 Yazoo City - 4,500  
 Pascagoula - 240,000  
 Theodore - 17,500  
 St. Marks - 5,000  
 Savannah - 12,000

Bureau of Land Management  
Library  
Denver Service Center

Prepared in conjunction with proposed  
OCS lease sale no. 41

ONLY SEGMENTS OF HIGHWAYS AND RAILROADS  
NEAR PRINCIPAL PORTS ARE SHOWN.







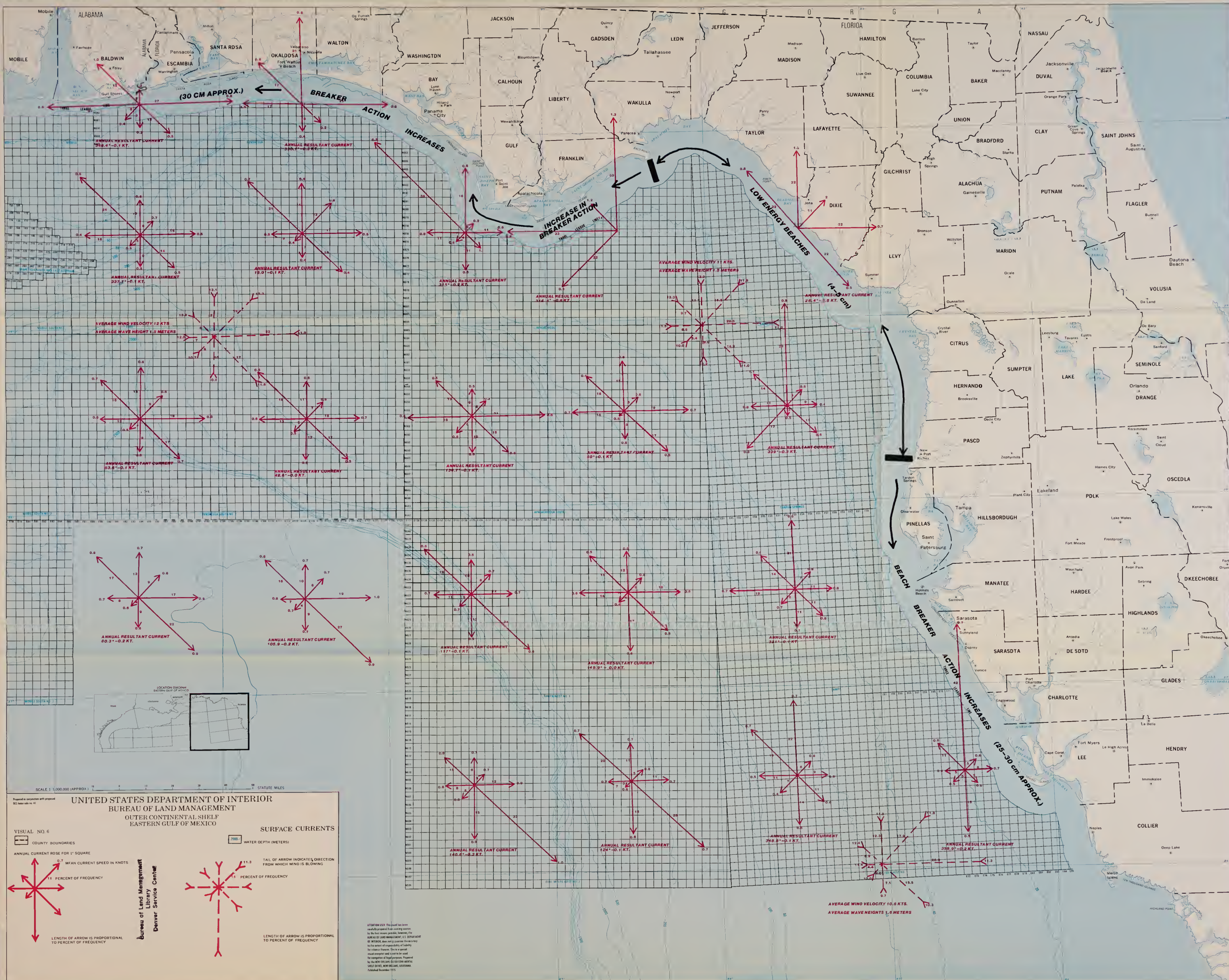




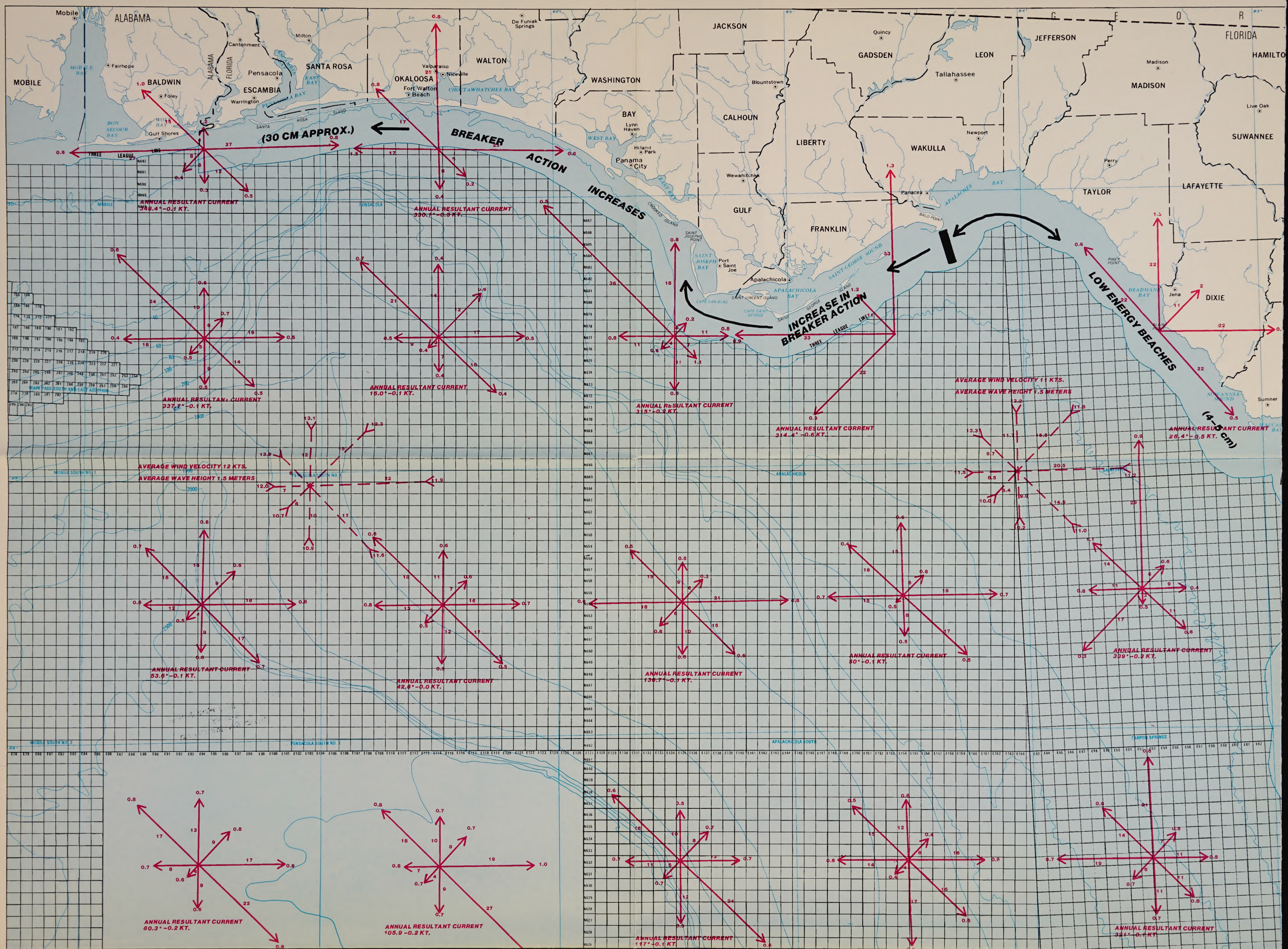








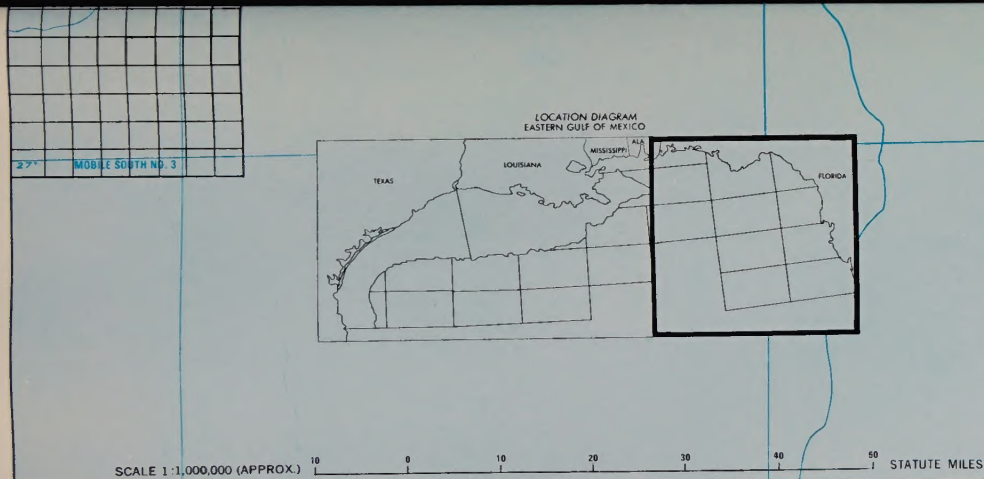












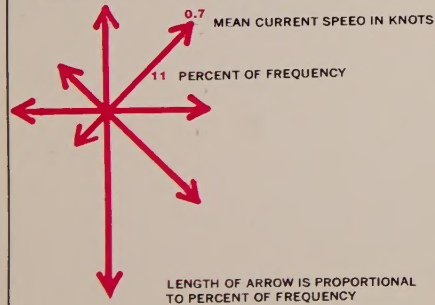
Prepared in conjunction with proposed  
DCS lease sale no. 41

# UNITED STATES DEPARTMENT OF INTERIOR BUREAU OF LAND MANAGEMENT OUTER CONTINENTAL SHELF EASTERN GULF OF MEXICO

VISUAL NO. 6

--- COUNTY BOUNDARIES

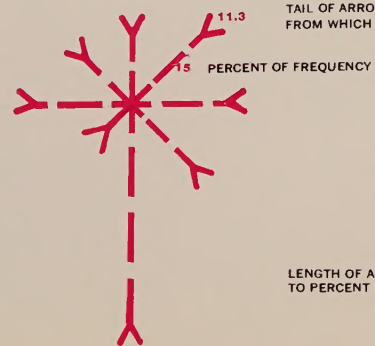
ANNUAL CURRENT ROSE FOR 1° SQUARE



Bureau of Land Management  
Library  
Denver Service Center

## SURFACE CURRENTS

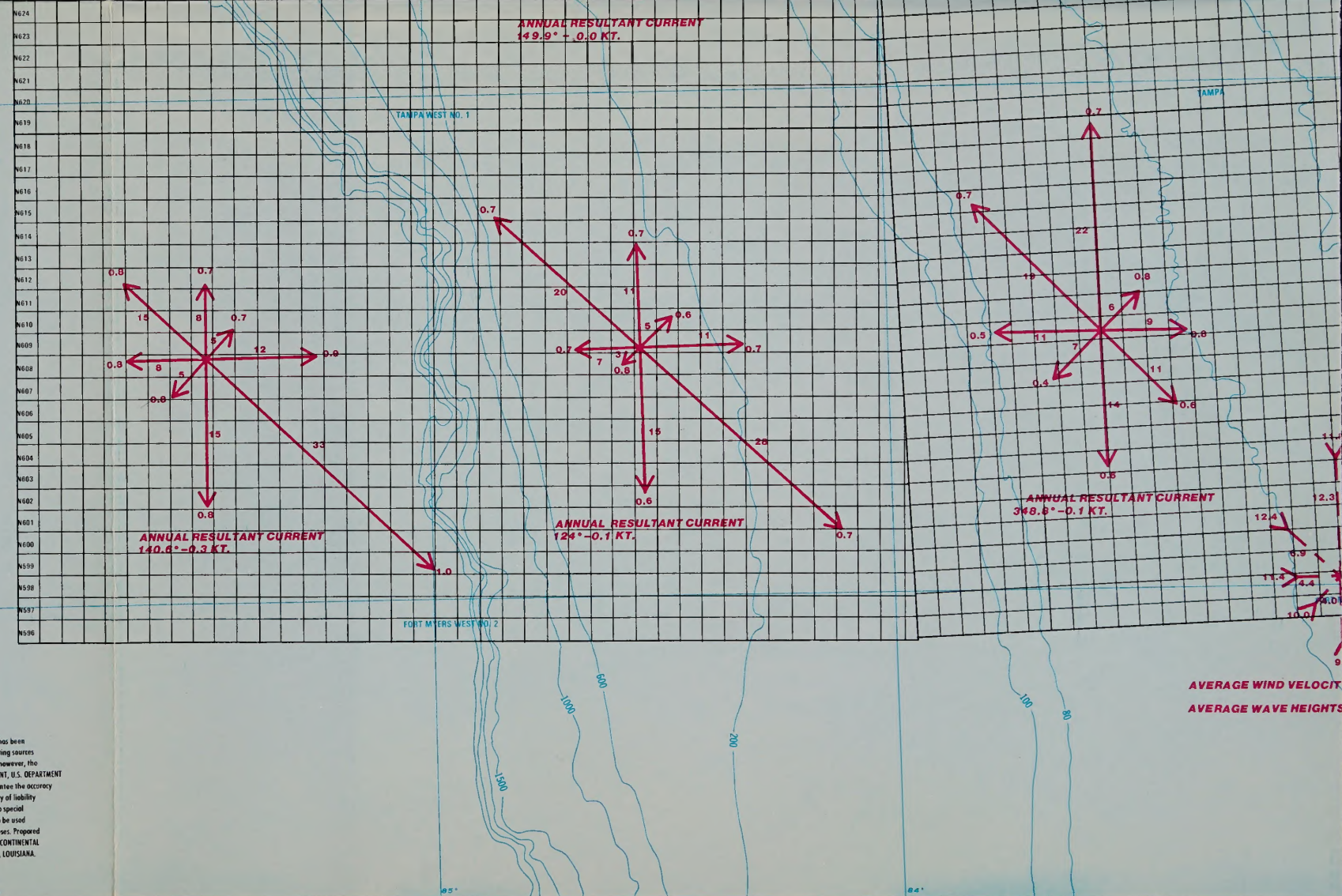
2000 WATER DEPTH (METERS)



TAIL OF ARROW INDICATES DIRECTION FROM WHICH WIND IS BLOWING

LENGTH OF ARROW IS PROPORTIONAL TO PERCENT OF FREQUENCY

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